St Andrew's Academy

Mathematics Department

S1 BLOCK 2

NUMBER

Rounding
Videos 277a, 277b on Corbettmaths
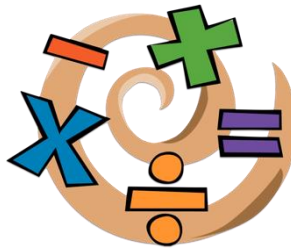
Workout

Question 1: Round the following numbers to the nearest 10

(a) 32   (b) 67   (c) 71   (d) 24

(e) 59   (f) 92   (g) 16   (h) 83

(i) 17   (j) 14   (k) 78   (l) 43

(m) 84   (n) 27   (o) 25   (p) 41

(q) 75   (r) 33   (s) 95   (t) 98

(u) 19   (v) 99   (w) 62   (x) 54

(y) 15   (z) 74

Question 2: Round the following numbers to the nearest 10

(a) 121   (b) 146   (c) 164   (d) 185

(e) 292   (f) 238   (g) 312   (h) 333

(i) 845   (j) 582   (k) 233   (l) 167

(m) 596   (n) 705   (o) 502   (p) 993

(q) 998   (r) 1241   (s) 1628   (t) 1164

(u) 2673   (v) 6036   (w) 7555   (x) 8128

(y) 13821   (z) 29234

Question 3: Round the following numbers to the nearest 10

(a) 24.2   (b) 61.9   (c) 76.8   (d) 26.4

(e) 14.7   (f) 231.8   (g) 185.3   (h) 201.5

(i) 78.38   (j) 135.14   (k) 141.97   (l) 164.89

(m) 4938.3   (n) 5141.49   (o) 15.455   (p) 1009.02

Question 4: Round the following numbers to the nearest 100

(a) 390   (b) 220   (c) 160   (d) 240

(e) 518   (f) 842   (g) 756   (h) 547

(i) 371   (j) 578   (k) 613   (l) 888

(m) 374   (n) 611   (o) 673   (p) 480

(q) 150   (r) 349   (s) 951   (t) 950

(u) 850   (v) 949   (w) 748   (x) 540

(y) 450   (z) 495

Question 5: Round the following numbers to the nearest 100

(a) 1430   (b) 1280   (c) 1610   (d) 1550

(e) 4030   (f) 6080   (g) 7420   (h) 8160

(i) 3562   (j) 2415   (k) 8283   (l) 5858

(m) 9248   (n) 3358   (o) 4214   (p) 9987

(q) 13494   (r) 16148   (s) 13114   (t) 15832

(u) 26783   (v) 56862   (w) 45555   (x) 13668

(y) 489481   (z) 124346

Question 6: Round the following numbers to the nearest 100

(a) 248.2   (b) 561.9   (c) 716.8   (d) 246.4

(e) 149.7   (f) 2315.8   (g) 1835.3   (h) 2061.5

(i) 2378.38   (j) 5135.14   (k) 9141.97   (l) 4164.89

(m) 44938.3   (n) 25141.49   (o) 1995.455   (p) 51009.02

Question 7:   Round the following numbers to the nearest 1000

(a) 2300   (b) 5600   (c) 2900   (d) 8200

(e) 7200   (f) 8420   (g) 2780   (h) 4500

(i) 1930   (j) 6480   (k) 7710   (l) 5500

(m) 4951   (n) 7571   (o) 7456   (p) 5499

(q) 7395   (r) 3112   (s) 3661   (t) 5532

(u) 4945   (v) 9442   (w) 9550   (x) 9499

(y) 9934   (z) 7409

Question 8:   Round the following numbers to the nearest 1000

(a) 21800   (b) 18300   (c) 17600   (d) 19200

(e) 11590   (f) 16350   (g) 24500   (h) 34800

(i) 38434   (j) 84925   (k) 48358   (l) 56187

(m) 123940   (n) 293482   (o) 231184   (p) 563921

Question 10: Round the following numbers to the nearest 10000

(a) 39304   (b) 23424   (c) 44500   (d) 26492

(e) 26500   (f) 54588   (g) 62049   (h) 75000

(i) 418553   (j) 144503   (k) 185000   (l) 384458

Question 11: Round the following numbers to the nearest 100000

(a) 384000   (b) 129400   (c) 569000   (d) 812300

(e) 384984   (f) 750000   (g) 1284000   (h) 2840000

Question 12: Round the following numbers to the nearest 1000000

(a) 1492000   (b) 5600000   (c) 7308000   (d) 6670000

(e) 12800000   (f) 17450000   (g) 35700000   (h) 384728521

Apply

Question 1: 645 people attended a concert. Round this to the nearest 10.

Question 2: 861 students attend a school. Round this to the nearest 100.

Question 3: The cost of a laptop is £1348. Round this to the nearest £100.

Question 4: 24,812 people attended a football match. Round this to the nearest thousand.

Question 5: The population of a city is 85,398. Round this to the nearest thousand.

Question 6: The number of beads in a jar is 50 to the nearest ten.
            (a) What is the minimum possible number of beads in the jar?
            (b) What is the maximum possible number of beads in the jar?

Question 7: The number of students at a school is 1200 to the nearest 100.
            What is the maximum possible number of students at the school?

Question 8: The population of a village is 900 to the nearest 100.
            State if the following could be true or false:

            (a) 890 people live in the village.
            (b) 960 people live in the village.
            (c) 912 people live in the village.
            (d) 845 people live in the village.
            (e) 850 people live in the village.
            (f) 950 people live in the village.

Question 9: The value of a car is £7000 to the nearest thousand pounds.
            (a) What is the least possible value of the car?
            (b) What is the greatest possible value of the car?

Question 10: The number of people at a concert is 200 to the nearest 10.
            (a) What is the least possible number of people at the concert?
            (a) What is the greatest possible number of people at the concert?

Corbett maths

Examples

Click here

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Workout

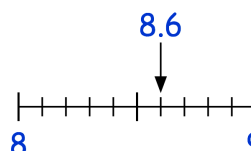Question 1:   Round each of the numbers below to the nearest whole number.

(a) 5.8
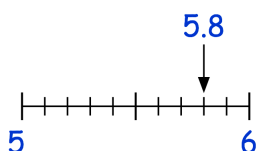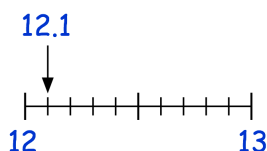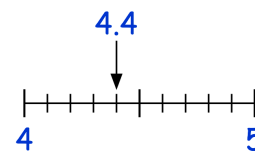
5.8
↓
├┼┼┼┼┼┼┼┼┤
5   6

(b)   12.1

12.1
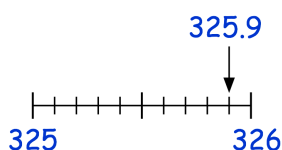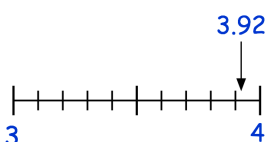↓
├┼┼┼┼┼┼┼┼┤
12   13

(c)   8.6

8.6
↓
├┼┼┼┼┼┼┼┼┤
8   9

(d)   4.4

4.4
↓
├┼┼┼┼┼┼┼┼┤
4   5

(e) 15.3

15.3
↓
├┼┼┼┼┼┼┼┼┤
15   16

(f)   325.9

325.9
↓
├┼┼┼┼┼┼┼┼┤
325   326

(g)   0.7

0.7
↓
├┼┼┼┼┼┼┼┼┤
0   1

(h)   18.5

18.5
↓
├┼┼┼┼┼┼┼┼┤
18   19
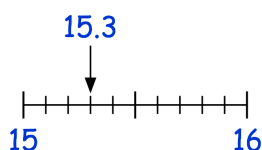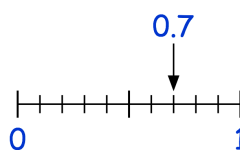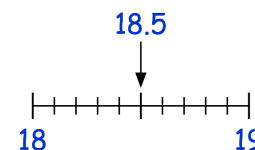
Question 2:   Round each of the following numbers to the nearest whole number.

(a) 7.2   (b) 1.9   (c) 14.3   (d) 9.4   (e) 27.8   (f) 19.1   (g) 50.6

(h) 154.7   (i) 200.5   (j) 334.6   (k) 99.9   (l) 840.4   (m) 1981.6 (n) 245.3

Question 3:   Round each of the numbers below to the nearest whole number.

(a) 8.15
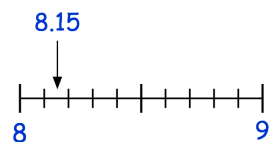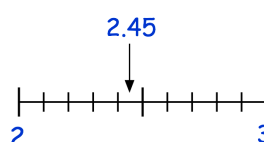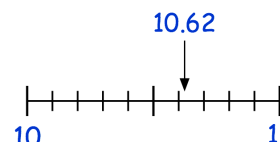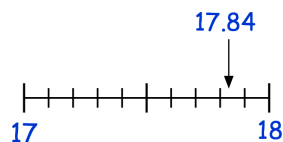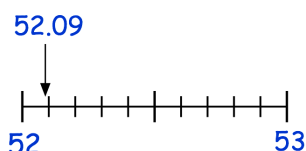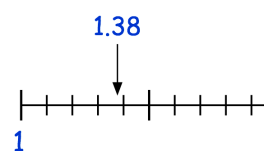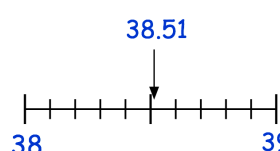
8.15
↓
├┼┼┼┼┼┼┼┼┤
8   9

(b)   3.92

3.92
↓
├┼┼┼┼┼┼┼┼┤
3   4

(c)   2.45

2.45
↓
├┼┼┼┼┼┼┼┼┤
2   3

(d)   10.62

10.62
↓
├┼┼┼┼┼┼┼┼┤
10   11

(e) 17.84

17.84
↓
├┼┼┼┼┼┼┼┼┤
17   18

(f)   52.09

52.09
↓
├┼┼┼┼┼┼┼┼┤
52   53

(g)   1.38

1.38
↓
├┼┼┼┼┼┼┼┼┤
1   2

(h)   38.51

38.51
↓
├┼┼┼┼┼┼┼┼┤
38   39

Question 4: Round each of the following numbers to the nearest integer (whole number).

(a) 4.11   (b) 6.74   (c) 2.91   (d) 9.46   (e) 8.27   (f) 6.34

(g) 13.89   (h) 16.08   (i) 42.63   (j) 29.54   (k) 38.15   (l) 103.46

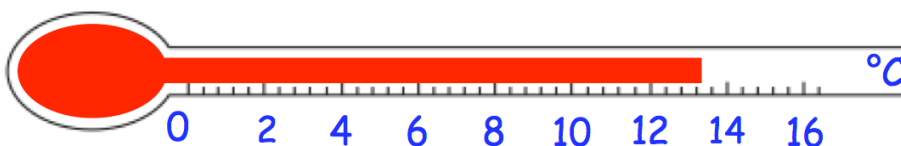Question 5: Round each of the following numbers to the nearest integer (whole number).

(a) 48.394   (b) 7.651   (c) 8.909   (d) 32.488   (e) 838.099   (f) 573.5619

(g) 15.6001   (h) 144.4998

Apply

Question 1: A cupcake contains 4.6g of protein.
Round 4.6g to the nearest whole number.

Question 2: The thermometer shows the temperature in a town.

°C
0   2   4   6   8   10 12 14 16

(a) Write down the temperature
(b) Round the temperature to the nearest degree celsius.

Question 3: Georgia has divided 2355 by a number on her calculator
The calculator shows the answer.

23.55

(a) What number did Georgia divide 2355 by?
(b) Round her answer to the nearest integer

Question 4: Derek wants to round 8 hours and 45 minutes to the nearest hour.
He says the answer is 8 because 8.45 rounds to 8.
Explain why Derek is wrong.

Question 5: Jurgen has rounded a number to the nearest whole number.
His answer was 600.
Write down 5 different possible numbers that he could have rounded.

Answers

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Examples

Workout

Click here

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Question 1:   Round each of the numbers below to 1 decimal place.
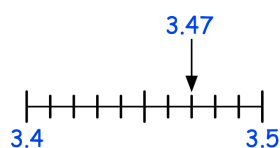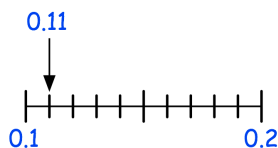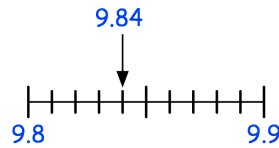
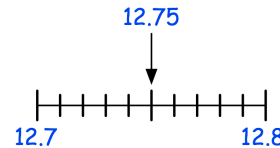(a) 3.47   (b)   0.11   (c)   9.84   (d)   12.75
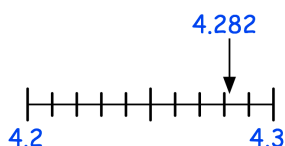

Question 2:   Round each of the following numbers to 1 decimal place.

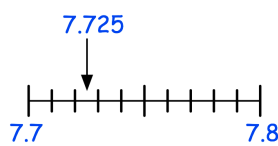(a)   4.82   (b)   6.19   (c) 9.77   (d) 10.63   (e) 21.41   (f) 3.14   (g) 48.18

(h)   29.26   (i)   80.85   (j) 0.43   (k) 248.38   (l)   637.51   (k) 62.89   (l) 9.99

Question 3:   Round each of the numbers below to one decimal place.
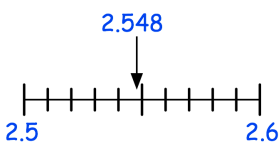
(a) 4.282   (b)   7.725   (c)   2.548   (d)   1.6631
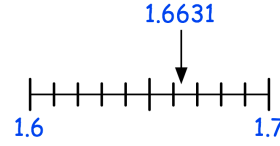
Question 4:   Round each of the numbers below to the nearest tenth (1 decimal place)

(a)   5.191   (b)   8.246   (c)   10.087   (d) 39.555   (e) 0.831

(f)   93.2941   (g) 38.3152   (h) 7.26229   (i)   0.54868696

Question 5:   Round each of the numbers below to 2 decimal places.
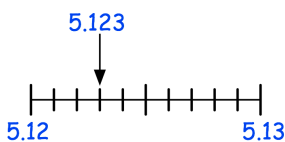
(a) 5.123   (b)   7.869   (c)   0.435   (d)   16.0149

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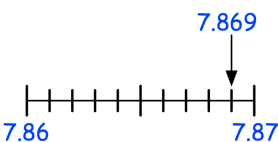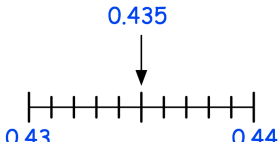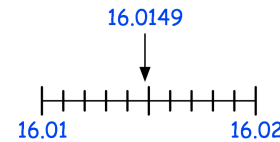
Question 6:   Round each of the numbers below to 2 decimal places

(a)   3.487   (b) 2.613   (c) 1.984   (d) 10.046   (e) 8.155

(f)   19.367   (g) 3.141   (h) 6.0698   (i) 4.26317   (j) 93.46197

Question 7:   Round each of the numbers below to 3 decimal places

(a)   0.0346   (b) 6.7568   (c) 4.2251   (d) 1.7583

(e)   40.48546   (f) 128.01891   (g) 0.5059802   (h) 384.456094

Apply

Question 1:   51.26% of the people living in a town are female.
Round this figure to one decimal place.

Question 2:   Walter has worked out a calculation on a calculator
Shown on the calculator is the answer.

5.428

(a) Round the answer to one decimal place
(b) Round the answer to two decimal places
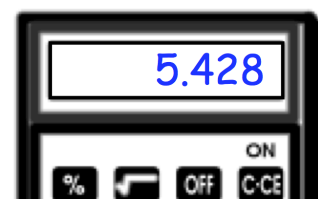
Question 3:   Daniel has been asked to round 1.725 to one decimal place.
His answer is 172.5
Explain Daniel's mistake.

Question 4:   Nicole has rounded a number to one decimal place.
Her answer is 9.2
Write down 10 different possible numbers that she could have rounded.

Question 5:   A chocolate bar contains 0.4715g of salt.
Round this to two decimal places.

Question 6:   Dominic writes down two numbers, A and B.
A and B have 2 decimal places.
Dominic rounds A to 1 decimal place and calls his answer C.
He rounds B to 1 decimal place and calls his answer D.
Dominic says the difference between A and B cannot be the same as the
difference between C and D.
Show he is incorrect

Answers

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1) 4 x 60
2) 400 + 800
3) 80 x 300
4) 240 ÷ 30
5) 2800 ÷ 40
6) 600 - 50
7) 70 x 40
8) 20 x 3000
9) 3200 - 80
10) 18000 ÷ 600
11) 42000 + 700
12) 1200 ÷ 300

Stretch!

Round and estimate:

1. $\dfrac{70.47-4.43}{0.999}$

2. $\dfrac{5.044+61.85}{4.989}$

3. $\dfrac{80.99}{1.989+8.401}$

4. $\dfrac{9.977-7.164}{0.993}$

5. $\dfrac{3.155+8.187}{1.0099}$

1. Round each of the following numbers to the nearest 10.
   a) 87   b) 343   c) 451   d) 898   e) 1453
2. Round each of the following numbers to the nearest 100.
   a) 342   b) 831   c) 395   d) 461   e) 8180
3. Round each of the following numbers to the nearest 1000.
   a) 3354 b) 8398   c) 3164   d) 4682   e) 82089

1. Round to the nearest whole number and estimate:
   a) 5.64 + 4.52   b) 19.69 + 5.78 + 0.85   c) 19.25 – 5.36
   d) 99.25 + 15.14   e) 11.47 + 5.27 + 17.83   c) 19.85 + 5.24 – 2.12
2. Round to the nearest 10 and estimate:
   a) 361 + 219   b) 46 + 97   c) 321 + 47
   d) 233 – 46   e) 658 – 281   f) 896 - 621
3. Round to the nearest 100 and estimate:
   a) 396 + 473   b) 404 + 723   c) 741 – 317
   d) 89 + 72   e) 358 + 474   f) 4105 – 1963
4. Round to the nearest 1000 and estimate:
   a) 12285 + 12359   b) 4874 + 4165   c) 1084 + 4998
   d) 25415 – 5752   e) 54965 – 8987   f) 23254 - 9874
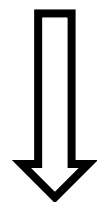
1. Round to the nearest 10 and estimate:
a) 8.91 x 21.58   b) 113.21 x 24.98   c) 46.05 x 95.2
d) 25.36 x 37.35   e) 16.985 x 32.57
2. Round small numbers to the nearest whole number. Round large numbers to the nearest 10 or 100 and estimate:
a) 19.85 x 3.25   b) 415.87 x 33.85   c) 627.08 x 5.2
d) 115.82 x 6.17   e) 5.399 x 328.97   f) 41.88 ÷ 4.09
g) 217.22 ÷ 4.07   h) 633.64 ÷ 30.66   i) 408.55 ÷ 83.56
j) 147.48 ÷ 5.16   k) 61.85 ÷ 4.44   l) 236.55 x 4.33

Word Problems

Estimate the sum or difference by rounding each number to the nearest hundreds.

1) Sam's school sold 819 boxes of doughnuts for a fundraiser this year. He sold
   156 boxes. How many boxes were sold by the rest of the students?   _____

2) Keith has 492 baseball cards. Mary bought 439 of Keith's baseball cards.
   How many baseball cards does Keith still own?   _____

3) Sandy grew 311 watermelons and Nancy grew 617 watermelons this year.
   How many watermelons did they grow together?   _____

4) There are 623 dogwood trees currently in the park. Park workers will plant
   647 more dogwood trees today. How many dogwood trees will be
   in the park when the workers are finished?   _____

5) Nancy and Jessica decided to bake cookies for a family picnic. Nancy baked
   131 raisin cookies and Jessica baked 896 sugar cookies. How many
   cookies did they bake?   _____

6) Tom had 816 dimes in his bank. He spent 226 of his dimes.
   How many dimes does he now have in his bank?   _____

7) There are 781 lemons in the store, 147 lemon are sold by the end of the day.
   How many lemons are left in the store?   _____

8) Dan is reading a book that contains 756 pages. He has read 161 pages.
   How many pages were unread?   _____

9) Fred owns 234 books and Mike owns 188 books.
   How many books do they have together?   _____

10) Sam went hiking along the Appalachian Trail. He hiked 237 miles the first
    week, and 774 miles the second week. How many miles did Sam hike?   _____

Name : _____   Score : _____

Teacher : _____   Date : _____

Estimating Products to the Nearest Tens

Estimate the product by rounding each number to the nearest ten.

1)   77 ⟶
     x 31 ⟶   x ___

8)   49 ⟶
     x 53 ⟶   x ___

2)   17 ⟶
     x 26 ⟶   x ___

9)   28 ⟶
     x 37 ⟶   x ___

3)   27 ⟶
     x 58 ⟶   x ___

10)   67 ⟶
     x 52 ⟶   x ___

4)   16 ⟶
     x 91 ⟶   x ___

11)   63 ⟶
     x 87 ⟶   x ___

5)   21 ⟶
     x 51 ⟶   x ___

12)   41 ⟶
     x 79 ⟶   x ___

6)   12 ⟶
     x 42 ⟶   x ___

13)   34 ⟶
     x 15 ⟶   x ___

7)   18 ⟶
     x 82 ⟶   x ___

14)   33 ⟶
     x 83 ⟶   x ___

Math-Aids.Com
Estimation Worksheets

Estimating Products to the Nearest Tens

Estimate the product by rounding each number to the nearest tens.

1) 755 x 28 = _____

2) 638 x 36 = _____

3) 418 x 13 = _____

4) 166 x 79 = _____

5) 324 x 83 = _____

6) 253 x 92 = _____

7) 213 x 24 = _____

8) 376 x 71 = _____

9) 297 x 85 = _____

10) 441 x 63 = _____

11) 344 x 61 = _____

12) 677 x 94 = _____

13) 597 x 68 = _____
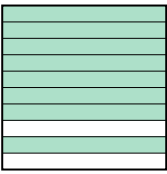
14) 759 x 91 = _____

Name: _____

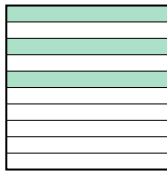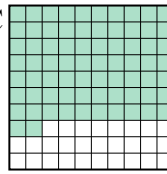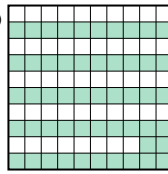**Determine the amount shaded of the whole. Write your answer as a decimal.**

1)

2)
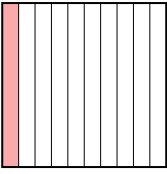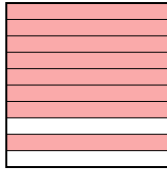
3)

4)

5)

6)

7)

8)

9)

10)

11)

12)

Math

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Name: _____

Determine the amount shaded of the whole. Write your answer as a decimal.

1)

2)
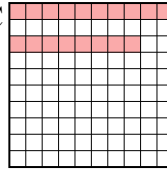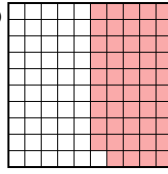
3)

4)

5)

6)

7)

8)

9)

10)

11)

12)

Math

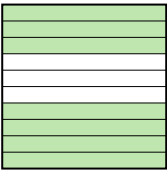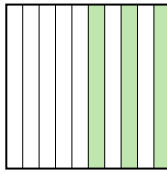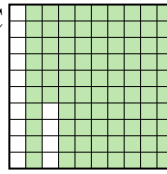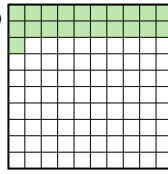| 1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Name:

Put the boxes in order from least to greatest based on the shaded amount.
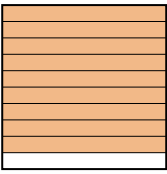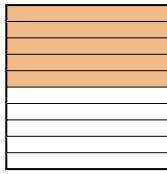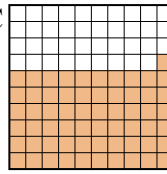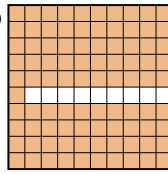
Ex) A ░ B ░ C ░ D ░
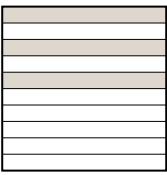
Small   0.3 - B
        0.52 - D
        0.72 - C
Large   0.8 - A

1) A ░ B ░ C ░ D ░
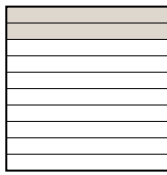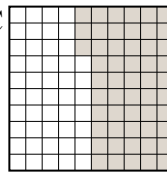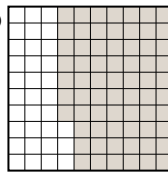
Small _____
      _____
      _____
Large _____

2) A ░ B ░ C ░ D ░
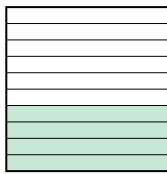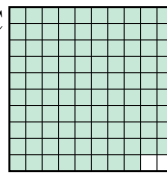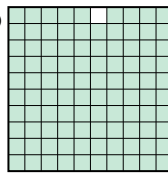
Small _____
      _____
      _____
Large _____

3) A ░ B ░ C ░ D ░
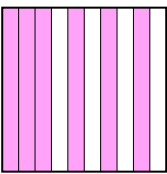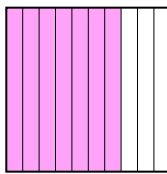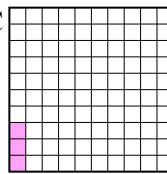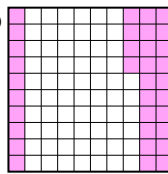
Small _____
      _____
      _____
Large _____

4) A ░ B ░ C ░ D ░
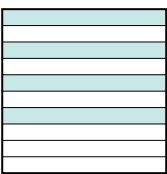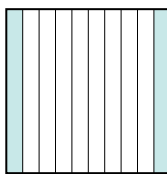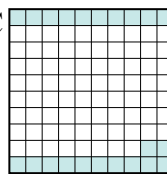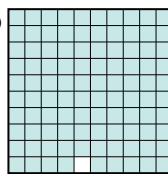
Small _____
      _____
      _____
Large _____

5) A ░ B ░ C ░ D ░
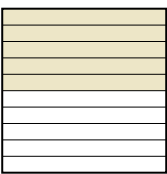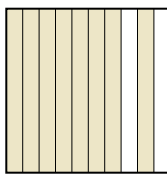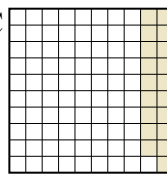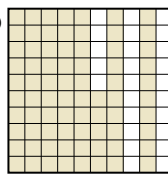
Small _____
      _____
      _____
Large _____

6) A ░ B ░ C ░ D ░

Small _____
      _____
      _____
Large _____

7) A ░ B ░ C ░ D ░

Small _____
      _____
      _____
Large _____

8) A ░ B ░ C ░ D ░

Small _____
      _____
      _____
Large _____

Math

| 1-8 | 88 | 75 | 63 | 50 | 38 | 25 | 13 | 0 |

Representing Numbers as Decimal Fractions

1. In this question, stands for 1 (whole number).

    What do the following diagrams represent ?

    a

    b

    c

    d

    e

    f
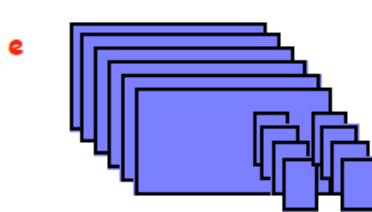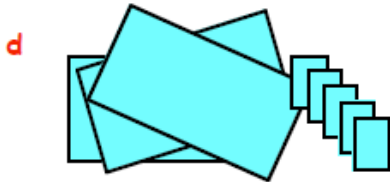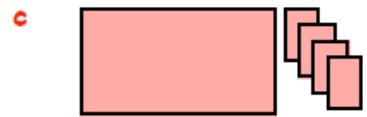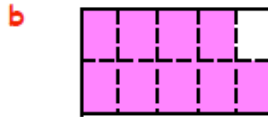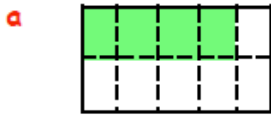
2. Draw neat pictures, in the same style as shown above, to represent :–

    a   0·5   b   1·6   c   2·2   d   6·7

3. Shown here is part of a circle (which had originally been divided into 10 sections).

    What decimal number does the shaded part represent ?
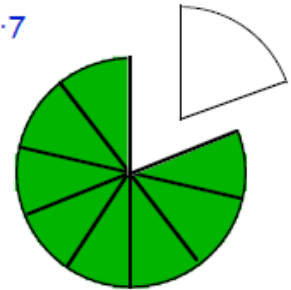
4. What numbers are represented in the following diagrams ?

    a

    b

    c
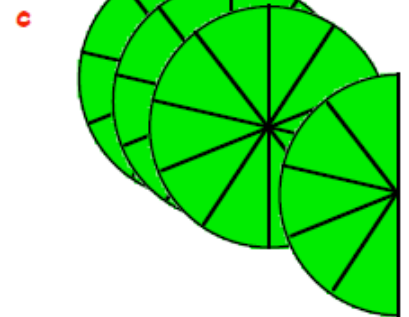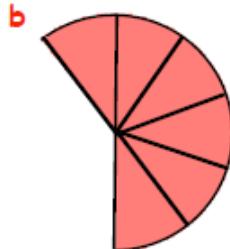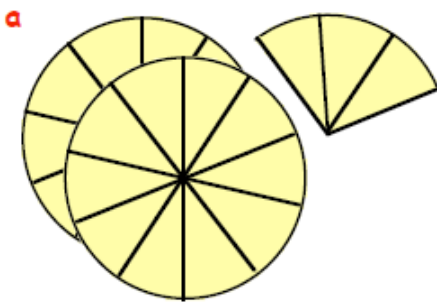
5. What numbers are represented in the diagrams below ?

    a

    0· 5....

    b

    0· ......

    c

    0· ......

    d

    e

    f
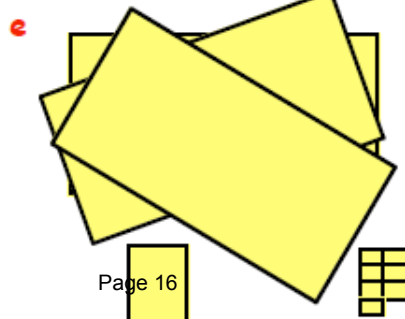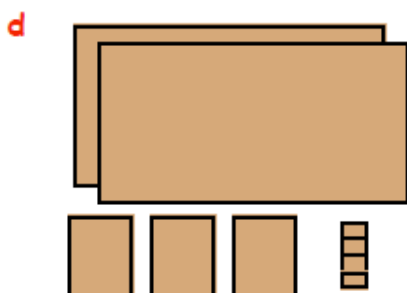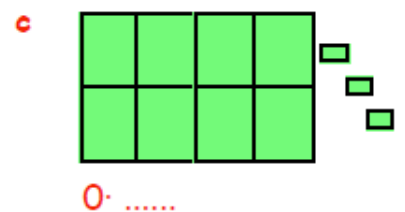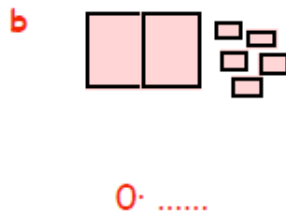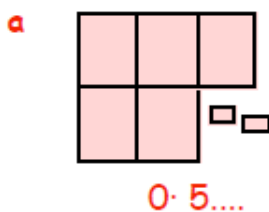
Representing Numbers as Decimal Fractions

6. Draw neat pictures, similar to those above, to show the following decimal numbers :-

   a   0·45   b   1·62   c   3·78   d   0·04

7. In the decimal number 13·47, what does the   a   4 mean   b   7 mean ?

8. What does the **6** stand for in each of these numbers :-

   a   63·75   b   124·69   c   16·08   d   27·56 ?

9. In the decimal number 13·479, what does the :-   a   7 mean   b   9 mean ?

10. What does the **2** stand for in each of the following numbers :-

    a   324·153   b   9·026   c   0·254   d   209·533   e   4·062 ?

11. Arrange the following groups of numbers in order, **smallest** first :-

    a   0·98, 0·099, 1·001, 0·9, 1·090, 0·899, 0·009.

    b   0·076, 0·067, 0·008, 0·090, 0·077, 0·007, 0·107.

12. The number 2·365 can be thought of as follows :-

    $$2·365 = \textbf{2 units} + \frac{3}{10} + \frac{6}{100} + \frac{5}{1000} \quad \text{or} \quad \textbf{2 units} + \frac{365}{1000}$$

    Write the following decimals in the same **two** ways :-

    a   5·716   b   7·693   c   0·548   d   20·207   e   0·056

13. What number is :-

    a $\frac{3}{10}$ **up** from 2·6   b $\frac{5}{10}$ **down** from 8·2   c $\frac{7}{10}$ up from 6·91

    d $\frac{6}{100}$ up from 0·87   e $\frac{8}{100}$ down from 1·42   f $\frac{7}{100}$ up from 3·653

    g $\frac{3}{1000}$ up from 2·475   h $\frac{5}{1000}$ down from 0·971   i $\frac{9}{1000}$ down from 1·604 ?

14. What number is **half way** between   0·782 and 0·786 ?

15. What number lies **half way** between :-

    a   0·15 and 0·21   b   0·88 and 0·9   c   1·204 and 1·208

    d   0·090 and 0·096   e   0·001 and 0·007   f   2·315 and 2·325

    g   1·000 and 0·998   h   0·1 and 0·08   i   0·01 and 0·008 ?

Workout

Question 1:   Arrange in order from smallest to largest

(a)   3.7, 3.5, 3.9, 3.4, 3.8

(b)   9.2, 2.9, 5.4, 1.8, 8.7

(c)   4.6, 4.9, 14.1, 0.9, 1.2

(d)   8.13, 8.05, 8.24, 8.09, 8.15, 8.02

(e)   1.53, 1.48, 1.59, 1.44, 2.11, 0.98

(f)   0.59, 1.24, 0.45, 1.34, 0.88, 2.01

Question 2:   Arrange in order from smallest to largest

(a)   1.2, 1.08, 1.13, 1.6, 1.29

(b) 5.25, 5.2, 5.19, 5.08, 5.1, 5.21

(c)   40.6, 46.1, 40.49, 40.68, 46, 46.09

(d) 0.24, 0.3, 0.125, 0.2, 0.199, 0.18

(e)   0.82, 0.082, 0.9, 0.807, 0.8

(f)   65, 6.5, 0.65, 7.65, 0.076, 7

(g)   0.25, 0.3, 0.2, 0.06, 0.19

(h)   7.81, 7.49, 7.9, 7.007, 7.1, 7.107

(i)   10.083, 10.08, 10.009, 10.56, 10.3

(j) 0.342, 0.075, 0.256, 0.34, 0.6, 0.4

Question 3:   Place the correct sign, < or > between the following pairs of decimals

(a)

$$6.3 \boxed{} 6.7$$

(b)

$$0.8 \boxed{} 0.5$$

(c)

$$2.2 \boxed{} 2.15$$

(d)

$$8.21 \boxed{} 8.9$$

(e)

$$9.099 \boxed{} 9.0971$$

(f)

$$1.205 \boxed{} 1.23$$

Apply

Question 1:   Arrange these temperatures in order, from lowest to highest

(a) 11 °C, 10.8°C, 12.3 °C, 15 °C, 12.7 °C

(b) 8.5 °C, 0.7 °C, −3 °C, 0.9 °C, 6 °C, 1.3 °C, −5.1°C
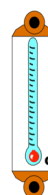
Question 2:   Arrange these amounts of money in order, from highest to lowest.

(a)   £6.74, £10, £1.99, £8, £3.30, £2

(b)   80p, £1, £0.09, 23p, £2.75, £0.82, £20

Question 3:   The distance of various landmarks from Big Ben are listed below.
Arrange the landmarks in order, from closest to furthest.

London Eye   0.41 miles
Wembley   11.62 miles
Buckingham Palace   0.8 miles
Trafalgar Square   0.63 miles
Hyde Park   2.27 miles
Thorpe Park   24.7 miles

Question 4:   Arrange these measurements in order from largest to smallest

(a) 6.2m, 6.077m, 6.31m, 6.19m, 6.4m, 6.009m

(b) 5kg, 800g, 1.2kg, 90g, 0.6kg

Question 5:   The heights of seven footballers are listed below.

1.9m, 1.82m, 1.78m, 1.8m, 1.88m, 1.86m, 1.7m

(a) Arrange the heights in order from smallest to largest.

(b) Write down the median height.

(c) A player is picked at random.
     Write down the probability that he is over 1.85m.

Question 6:   The lengths of time that it takes to complete a jigsaw are below.

0.5 hours, 1.25 hours, 100 minutes, 0.75 hours, 40 minutes,

2 hours, 1.5 hours, 180 minutes, 61 minutes, 0.25 hours.

(a) Arrange the times in order, from quickest to longest.

(b) What fraction of the people completed the jigsaw in under 1 hour?

(c) What percentage of people took 2 hours or longer?

Comparing Decimals (A)

Compare each pair of decimals using a <, > or = sign.

19.8 ☐ 20.1	20.7 ☐ 20.2	18.2 ☐ 18.1
9.2 ☐ 8.6	22.8 ☐ 22.8	17.7 ☐ 17.9
10.2 ☐ 10.7	4.8 ☐ 5.1	11.4 ☐ 12.2
1.8 ☐ 1.5	11.2 ☐ 11.7	12.3 ☐ 11.4
14.1 ☐ 13.5	11 ☐ 11.7	20.4 ☐ 20.2
15.8 ☐ 16.4	18.4 ☐ 18.1	14.4 ☐ 14.8
20.5 ☐ 20	9.5 ☐ 9.2	23.3 ☐ 23.9
8.2 ☐ 8.2	9.9 ☐ 10.4	20.8 ☐ 19.9
17.1 ☐ 16.6	18.4 ☐ 18.5	18.6 ☐ 19.4
7 ☐ 6.4	11.6 ☐ 11.4	22.4 ☐ 22.2
3.6 ☐ 4	15.3 ☐ 14.4	1.8 ☐ 2.4
5.4 ☐ 5.7	6 ☐ 6.4	16.1 ☐ 15.7
16.6 ☐ 17.5	10.9 ☐ 10.5	6.9 ☐ 7.6
2.6 ☐ 3.1	12.5 ☐ 12.9	7.2 ☐ 6.7
10.3 ☐ 9.7	5.6 ☐ 5.6	18.2 ☐ 17.6
14.6 ☐ 14.2	14.1 ☐ 13.9	11.8 ☐ 11
2.8 ☐ 1.9	11.4 ☐ 11	6.5 ☐ 7.3
20.6 ☐ 20.5	21.7 ☐ 21.9	23.9 ☐ 23.7
7.4 ☐ 6.5	15.3 ☐ 15.5	2.7 ☐ 3.1
9.2 ☐ 9.9	2.7 ☐ 1.9	15.8 ☐ 15.8

Comparing Decimals (A)

Compare each pair of decimals using a <, > or = sign.

22.2 ☐ 22.58	16 ☐ 16.06	11 ☐ 11.75
11.96 ☐ 12.83	21.7 ☐ 21.44	18.16 ☐ 18.78
2.39 ☐ 2.87	11.68 ☐ 11.84	13.7 ☐ 13.68
4.04 ☐ 4.47	5.79 ☐ 4.82	6.87 ☐ 7.05
4.55 ☐ 5.3	19.76 ☐ 19.68	10.97 ☐ 10.53
24.48 ☐ 24.03	8.15 ☐ 8.03	22.04 ☐ 22.56
15.17 ☐ 14.53	23.63 ☐ 22.84	8.82 ☐ 8.75
2.29 ☐ 3.27	23.22 ☐ 22.76	10.22 ☐ 10.32
24.72 ☐ 24.07	8.54 ☐ 7.77	19.66 ☐ 20.61
18.16 ☐ 18.56	24.83 ☐ 24.88	4.44 ☐ 4.04
23.99 ☐ 24.93	24.26 ☐ 24.94	1.57 ☐ 1.53
23.24 ☐ 22.94	9.54 ☐ 10.46	24.98 ☐ 24.43
11.24 ☐ 10.31	22.42 ☐ 21.89	20.27 ☐ 19.59
13.09 ☐ 13.63	9.77 ☐ 9.46	16.99 ☐ 16.8
13.98 ☐ 14.21	10.2 ☐ 10.93	11.86 ☐ 11.17
13.61 ☐ 13.72	24.77 ☐ 24.51	20.83 ☐ 21.69
1.65 ☐ 2.06	22.68 ☐ 21.88	14.35 ☐ 14.82
13.65 ☐ 13.03	6.36 ☐ 5.45	24.22 ☐ 24.14
5.11 ☐ 4.97	17.75 ☐ 17.34	5.77 ☐ 6.26
21.74 ☐ 21.11	16.05 ☐ 15.78	5.44 ☐ 5.28

Reading Decimals from Scales.

Write down the 4 readings from each scale.
Add them together to find the total.

1). a).   b).   c). d).

0   1   2

e).   Total.

2). a).   b).   c).   d).

0   1   2

e).   Total.

3). a). b).   c).   d).

4   5   6

e).   Total.

4). a).   b). c).   d).

9   10   11

e).   Total.

5).   d).   a).   b).   c).

3   4

e).   Total.

6). d).   a).   b).   c).

8   9

e).   Total.

7). d).   a).   b).   c).

10   11

e).   Total.

8). d).   a).   b).   c).

19   20

e).   Total.

9). a). b).   c).   d).

0   1   2   3   4

e).   Total.

10). a).   b). c).   d).

0   1   2   3   4

e).   Total.

11). a).   b). c).   d).

5   6   7   8   9

e).   Total.

12). a).   b). c).   d).

23   24   25   26   27

e).   Total.

13). d).   a).   b).   c).

10   11

e).   Total.

14). d).   a).   b). c).

33   34

e).   Total.

15). a). b).   c).   d).

8   9   10   11   12

e).   Total.

16).   a).   b).   c). d).

24   25   26   27   28
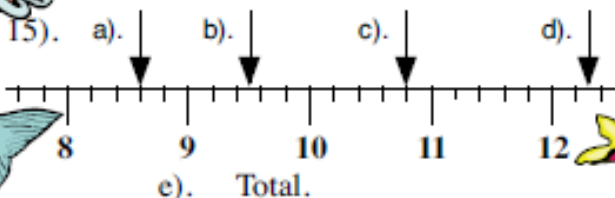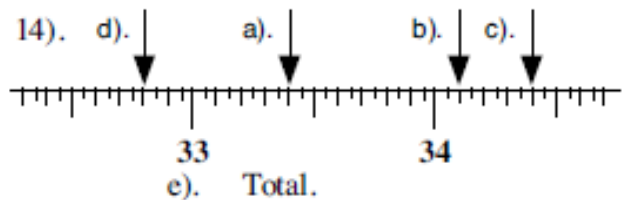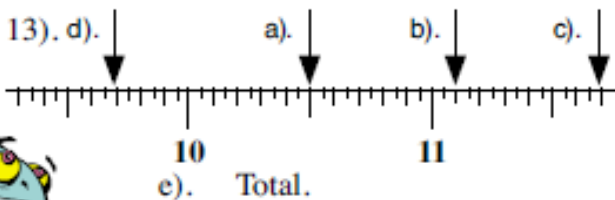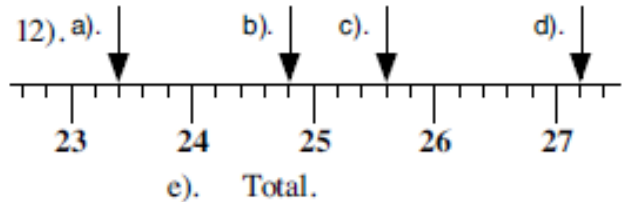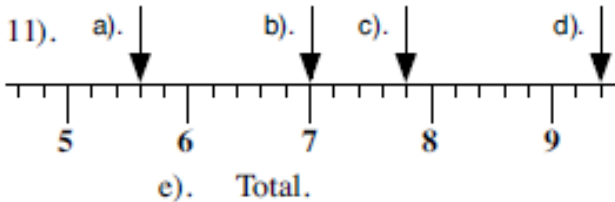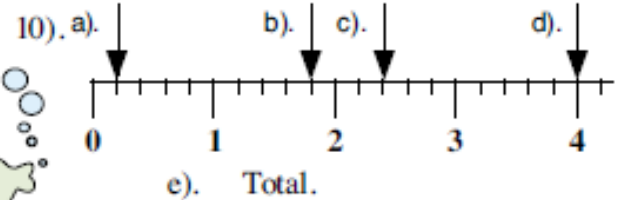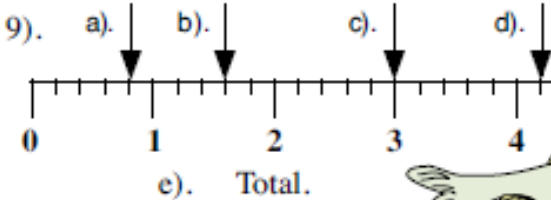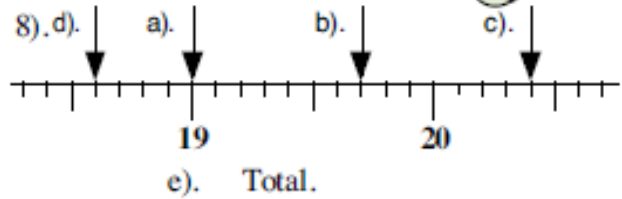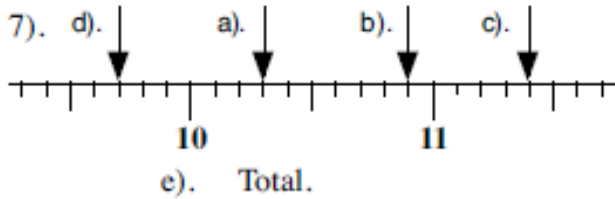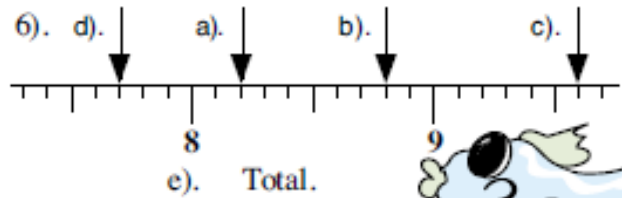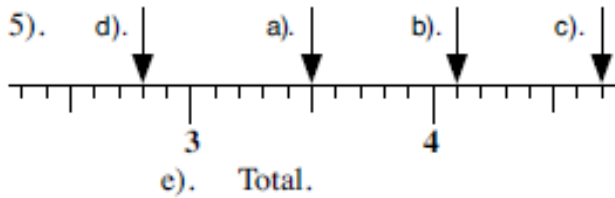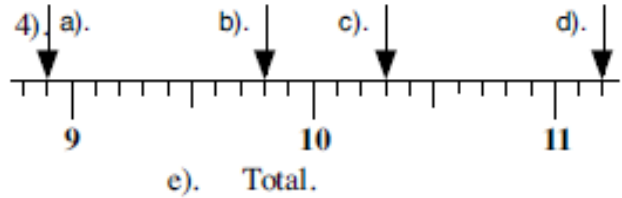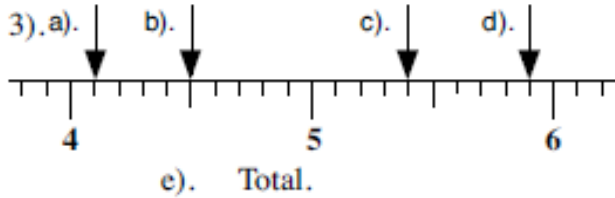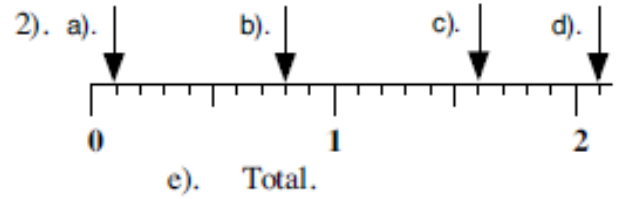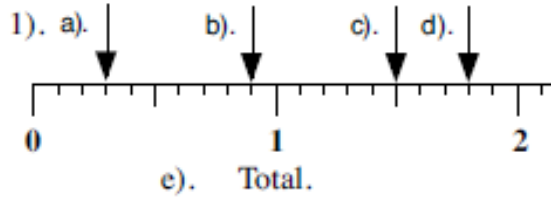
e).   Total.

Hundredths

Write down the 4 readings from each scale.
Add them together to find the total.

1). a). b). c). d).

0   0.1   0.2

e).   Total.

2). a). b). c). d).

0   0.1   0.2

e).   Total.

3). a). b). c). d).

0.6   0.7   0.8

e).   Total.

4). a). b). c). d).

0.9   1.0   1.1

e).   Total.

5). d). a). b). c).

2.7   2.8

e).   Total.

6). d). a). b). c).

8.9   9.0

e).   Total.

7). d). a). b). c).

5.0   5.1

e).   Total.

8). d). a). b). c).

7.0   7.1

e).   Total.

9). a). b). c). d).

0   0.1   0.2   0.3   0.4

e).   Total.

10). a). b). c). d).

0   0.1   0.2   0.3   0.4

e).   Total.

11). a). b). c). d).

1.8   1.9   2.0   2.1   2.2

e).   Total.

12). a). b). c). d).

4.5   4.6   4.7   4.8   4.9

e).   Total.

13). a). b). c). d).

6.8   6.9   7.0   7.1   7.2

e).   Total.

14). a). b). c). d).

9.2   9.3   9.4   9.5   9.6

e).   Total.

15). d). a). b). c).

7   8

e).   Total.

16). c). d). a). b).

23   24

e).   Total.

Page 23
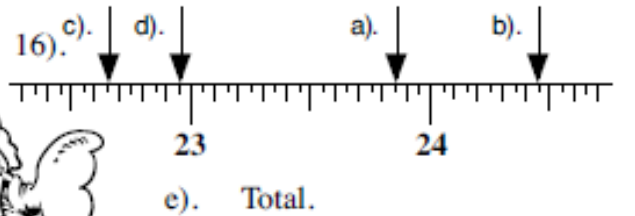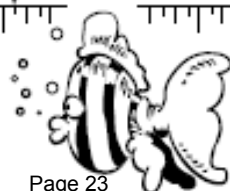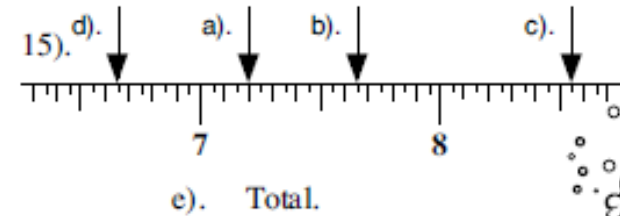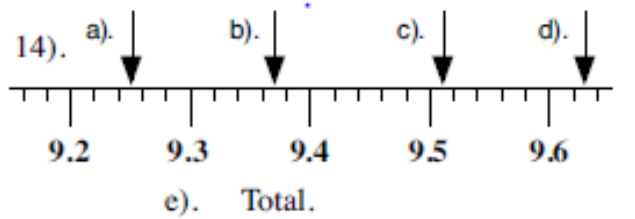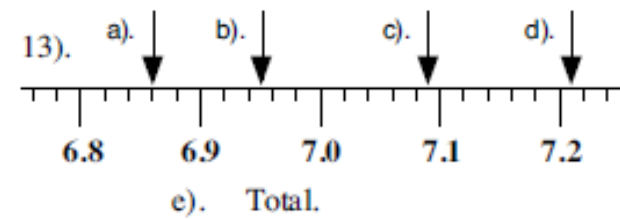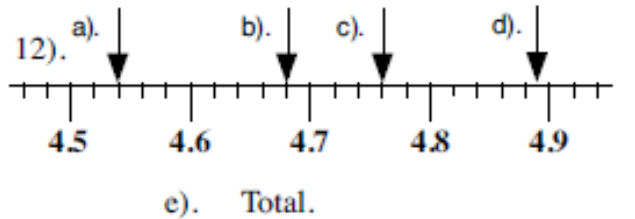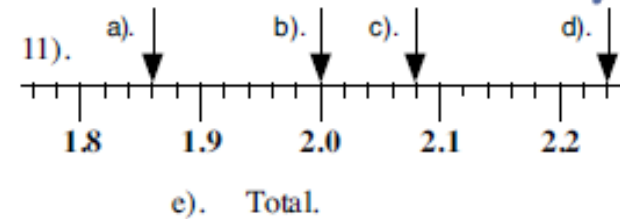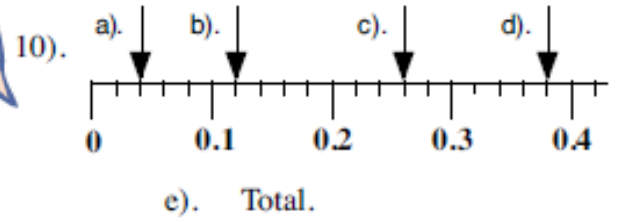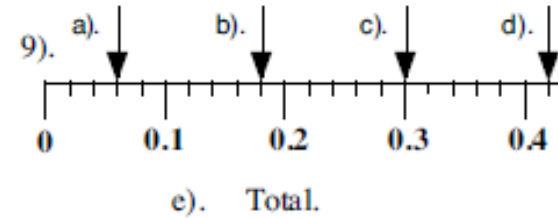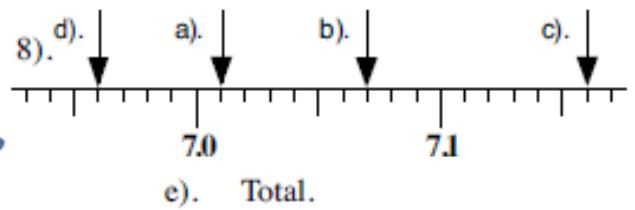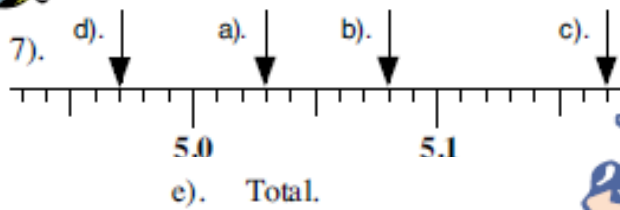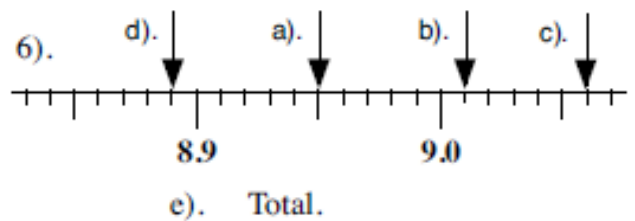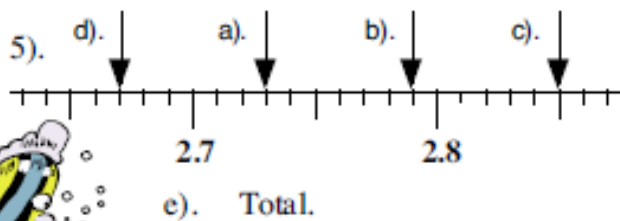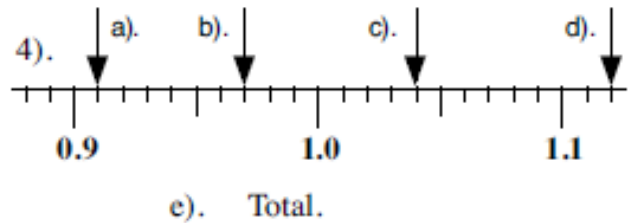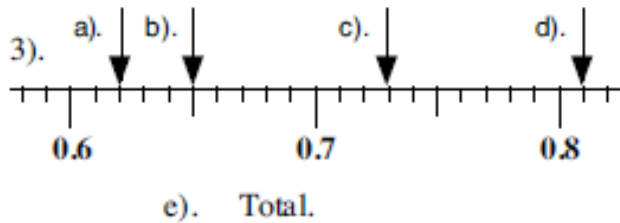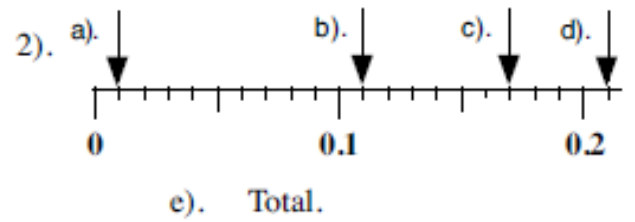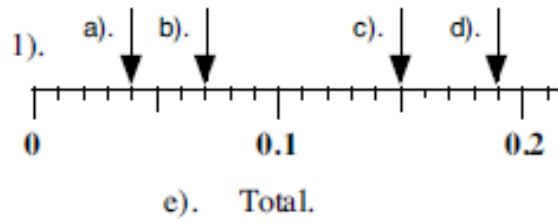
Decimal Scales

1. Say what number each of these arrows is pointing to :-

a

b

c

d

e

f

g

* careful here

h

i

j

k

l

m

n

o
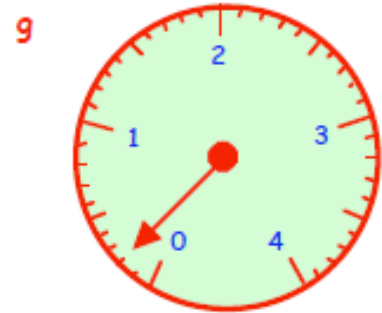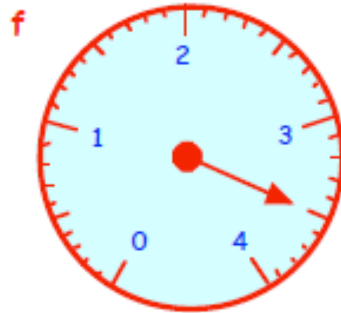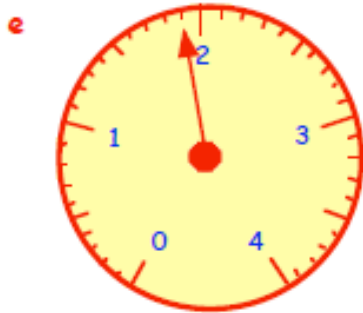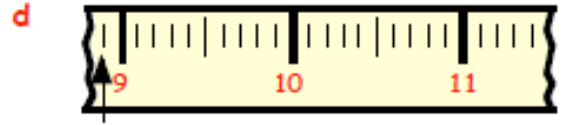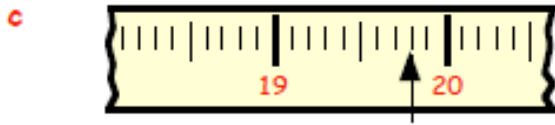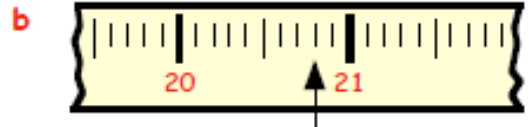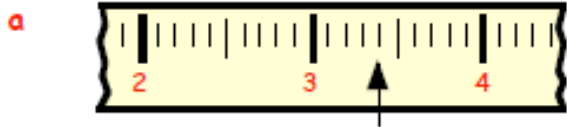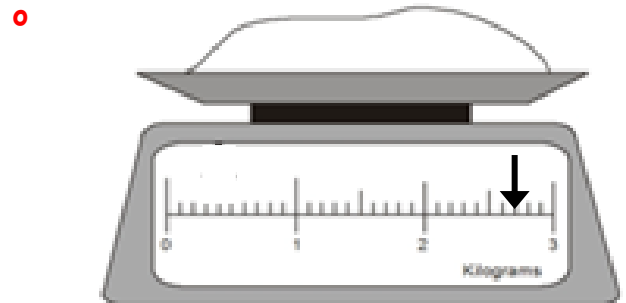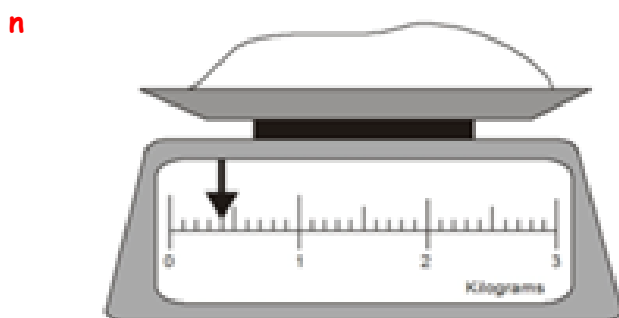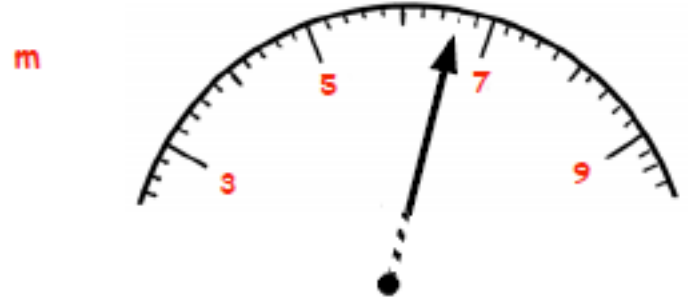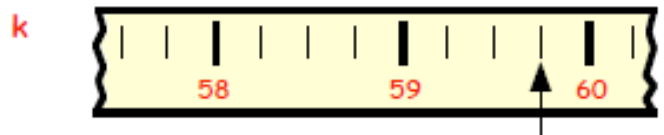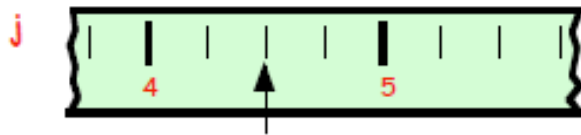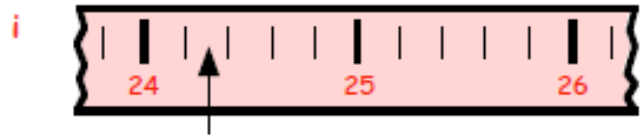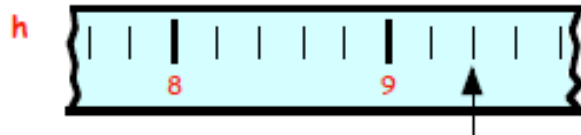
Decimal Scales

2. To which numbers are each of the following arrows pointing :-

a

b

c

d

e

f

g

h   NOT (0·44 or 0·49)

i

j

k

l

m   be careful

Multiplication by 10, 100, 1000
Video 202 on www.corbettmaths.com
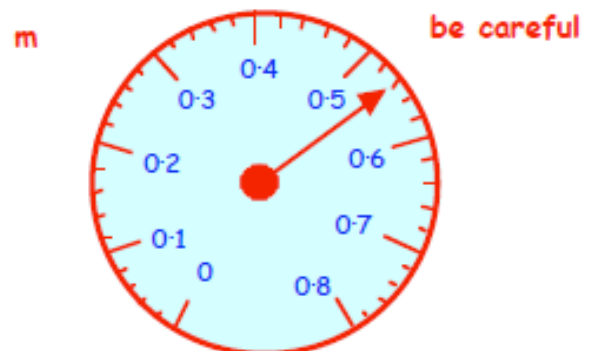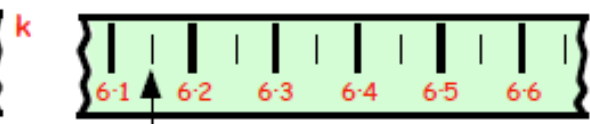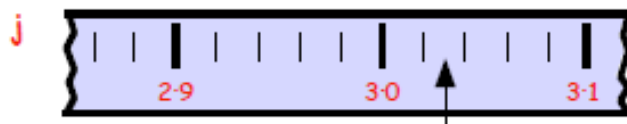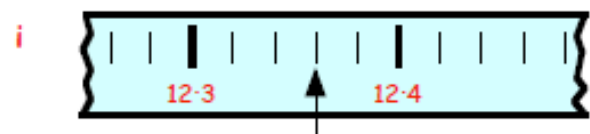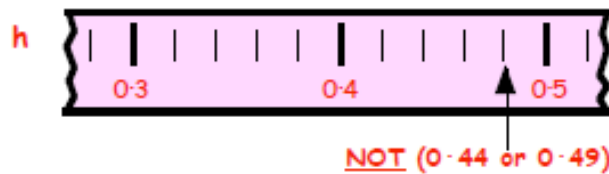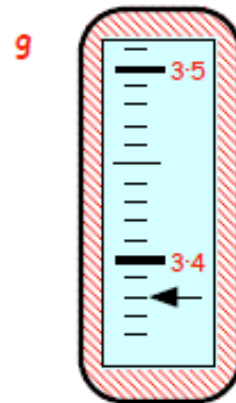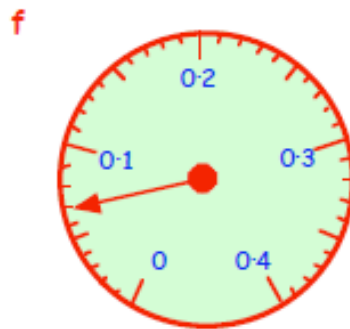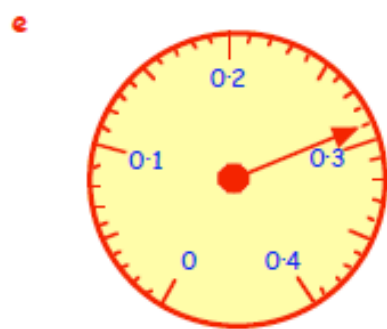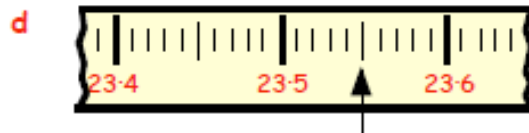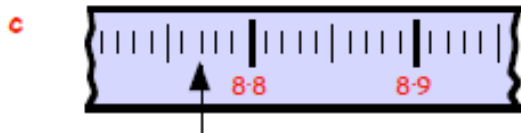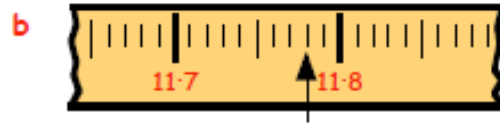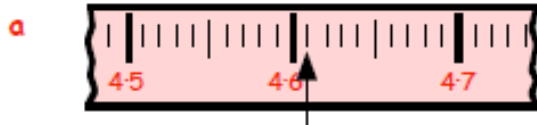
Workout

Question 1:   Work out each of the following multiplications

(a) 3 × 10   (b) 8 × 10   (c) 12 × 10   (d) 16 × 10

(e) 25 × 10   (f) 42 × 10   (g) 78 × 10   (h) 20 × 10

(i) 90 × 10   (j) 112 × 10   (k) 203 × 10   (l) 140 × 10

(m) 529 × 10   (n) 400 × 10   (o) 1925 × 10   (p) 3500 × 10

(q) 2710 × 10   (r) 50000 × 10   (s) 6204 × 10   (t) 99099 × 10

Question 2:   Work out each of the following multiplications

(a) 0.2 × 10   (b) 0.8 × 10   (c) 0.1 × 10   (d) 1.3 × 10

(e) 5.8 × 10   (f) 15.1 × 10   (g) 20.5 × 10   (h) 357.4 × 10

(i) 0.06 × 10   (j) 0.14 × 10   (k) 0.42 × 10   (l) 3.07 × 10

(m) 0.009 × 10   (n) 0.0053 × 10   (o) 0.105 × 10   (p) 0.0381 × 10

(q) 3.4905 × 10   (r) 0.25801 × 10   (s) 400.05 × 10   (t) 122.08 × 10

Question 3:   Work out each of the following multiplications

(a) 4 × 100   (b) 7 × 100   (c) 15 × 100   (d) 28 × 100

(e) 30 × 100   (f) 90 × 100   (g) 165 × 100   (h) 593 × 100

(i) 520 × 100   (j) 203 × 100   (k) 400 × 100   (l) 100 × 100

(m) 2000 × 100   (n) 3902 × 100   (o) 2030 × 100   (p) 40001 × 100

Question 4:   Work out each of the following multiplications

(a) 0.3 × 100   (b) 0.9 × 100   (c) 0.02 × 100   (d) 0.05 × 100

(e) 0.15 × 100   (f) 0.23 × 100   (g) 5.8 × 100   (h) 4.13 × 100

(i) 3.08 × 100   (j) 0.822 × 100   (k) 0.606 × 100   (l) 0.004 × 100

(m) 320.4 × 100   (n) 2.3802 × 100   (o) 0.00351 × 100   (p) 105.1 × 100

Question 5: Work out each of the following multiplications

(a) 5 × 1000   (b) 9 × 1000   (c) 18 × 1000   (d) 45 × 1000

(e) 40 × 1000   (f) 70 × 1000   (g) 200 × 1000   (h) 595 × 1000

(i) 710 × 1000   (j) 909 × 1000   (k) 900 × 1000   (l) 1000 × 1000

(m) 8000 × 1000   (n) 5800 × 1000   (o) 5040 × 1000   (p) 60000 × 1000

Question 6: Work out each of the following multiplications

(a) 0.2 × 1000   (b) 0.8 × 1000   (c) 1.4 × 1000   (d) 8.3 × 1000

(e) 0.06 × 1000   (f) 0.007 × 1000   (g) 17.5 × 1000   (h) 30.9 × 1000

(i) 4.45 × 1000   (j) 0.48 × 1000   (k) 0.033 × 1000   (l) 0.0081 × 1000

(m) 0.403 × 1000   (n) 0.2002 × 1000   (o) 1.0934 × 1000   (p) 93.0491 × 1000

Question 7: Work out each of the following multiplications

(a) 76 × 10   (b) 230 × 100   (c) 3 × 1000   (d) 52 × 1000

(e) 6 × 100   (f) 352 × 10   (g) 4.5 × 100   (h) 0.9 × 10

(i) 25 × 100   (j) 8001 × 1000   (k) 4.1 × 1000   (l) 0.75 × 10

(m) 3.5 × 100   (n) 50.89 × 100   (o) 0.018 × 100   (p) 0.679 × 1000

(q) 0.888 × 10   (r) 3094.5 × 100   (s) 255.21 × 10   (t) 39.001 × 1000

(u) 3.005 × 10   (v) 0.005 × 100   (w) 8900 × 100   (x) 0.011 × 1000

(y) 94.6 × 100   (z) 4.99 × 1000

Apply

Question 1: Natalie saves £100 a month towards a new car.
How much money will she have saved after 11 months?

Question 2:   A box contains 10 eggs.
                Hilary needs 68 eggs.
                How many boxes of eggs should she buy?

Question 3:   A ticket for a charity concert costs £10.
                231 tickets are sold.
                How much money is raised for charity?

Question 4:   A box of drawing pins contains 100 pins.
                How many drawing pins are there in 40 boxes?

Question 5:   (a) How many years are there in 15 centuries?
                (b) How many years are there in 8 decades?
                (c) How many years are there in 4 millennia?

Question 6:   The decagon below is regular, which means that all sides are the same
                length.
                Work out the perimeter of the decagon.

3.8cm
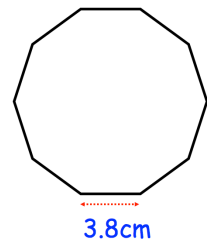
Question 7:   Shown below are some questions and answers.
                Match each question and correct answer.
                The first one has been completed for you.

0.032 x 10   32

3.2 x 10   0.32

0.32 x 10   3.2

0.32 x 1000   3200

32 x 100   320

Question 8:   Write down the value of the 2 in the answer to 7.025 × 1000

Question 9:   A coffee shop sells cups of coffee in 0.3 litre cups.
                In one week they sell 10000 cups of coffee.
                How many litres of coffee do they sell in one week?

Corbett
mαths

Workout

Question 1:   Work out each of the following divisions

(a) 30 ÷ 10

(b) 90 ÷ 10

(c) 120 ÷ 10

(d) 250 ÷ 10

(e) 800 ÷ 10

(f) 380 ÷ 10

(g) 4000 ÷ 10

(h) 1600 ÷ 10

(i) 9 ÷ 10

(j) 2 ÷ 10

(k) 1 ÷ 10

(l) 7 ÷ 10

(m) 72 ÷ 10

(n) 15 ÷ 10

(o) 93 ÷ 10

(p) 219 ÷ 10

(q) 3414 ÷ 10

(r) 109 ÷ 10

(s) 2015 ÷ 10

(t) 870 ÷ 10

(u) 0.6 ÷ 10

(v) 0.3 ÷ 10

(w) 0.15 ÷ 10

(x) 0.08 ÷ 10

Question 2:   Work out each of the following divisions

(a) 200 ÷ 100

(b) 500 ÷ 100

(c) 900 ÷ 100

(d) 1400 ÷ 100

(e) 4800 ÷ 100

(f) 6200 ÷ 100

(g) 3000 ÷ 100

(h) 1000 ÷ 100

(i) 17000 ÷ 100

(j) 53000 ÷ 100

(k) 2810 ÷ 100

(l) 9145 ÷ 100

(m) 180 ÷ 100

(n) 375 ÷ 100

(o) 520 ÷ 100

(p) 70 ÷ 100

(q) 40 ÷ 100

(r) 17 ÷ 100

(s) 5 ÷ 100

(t) 2 ÷ 100

(u) 2.9 ÷ 100

(v) 0.8 ÷ 100

(w) 0.35 ÷ 100

(x) 4.2 ÷ 100

Question 3:   Work out each of the following divisions

(a) 4000 ÷ 1000

(b) 7000 ÷ 1000

(c) 16000 ÷ 1000

(d) 86000 ÷ 1000

(e) 50000 ÷ 1000

(f) 370000 ÷ 1000

(g) 1900 ÷ 1000

(h) 4250 ÷ 1000

(i) 5833 ÷ 1000

(j) 900 ÷ 1000

(k) 820 ÷ 1000

(l) 41 ÷ 1000

(m) 2 ÷ 1000

(n) 13 ÷ 1000

(o) 9 ÷ 1000

(p) 0.3 ÷ 1000

(q) 1.55 ÷ 1000

(r) 0.51 ÷ 1000

(s) 0.02 ÷ 1000

(t) 3.08 ÷ 1000

(u) 67000000 ÷ 1000

(v) 0.045 ÷ 1000

Question 4:   Work out each of the following divisions

(a) 56 ÷ 10   (b) 48000 ÷ 100   (c) 3 ÷ 1000   (d) 52 ÷ 1000

(e) 6 ÷ 100   (f) 312 ÷ 10   (g) 4.5 ÷ 100   (h) 0.9 ÷ 10

(i) 25 ÷ 100   (j) 8001 ÷ 1000   (k) 4.1 ÷ 1000   (l) 0.75 ÷ 10

(m) 3.5 ÷ 100   (n) 50.89 ÷ 100   (o) 0.018 ÷ 100   (p) 0.679 ÷ 1000

(q) 0.888 ÷ 10   (r) 3094.5 ÷ 100   (s) 255.21 ÷ 10   (t) 39.001 ÷ 1000

Apply

Question 1:   Vicky saves £10 each week.
               She wants to buy a violin that costs £180
               How many weeks will it take Vicky to save enough money?

Question 2:   Barry prints booklets that each have 100 pages.
               In total, he prints 6000 pages.
               How many booklets did Barry print?

Question 3:   A box of staples contains 1000 staples.
               A secretary wants to order 3000000 staples.
               How many boxes of staples should they order?

Question 4:   A decagon has 10 sides.
               The decagon below is regular, which means that all sides are the same
               length.
               Work out the length of each side of the decagon.

Perimeter = 48cm

?
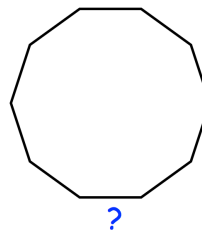
Question 5:   A bakery makes 2600 cupcakes in a week.
               The cupcakes are placed into boxes of 10.
               Each box of cupcakes is sold for £3.
               How much money does the bakery make for selling the cupcakes?

Question 6:   Work out the missing numbers

(a) ☐ x 10 = 0.009   (b) ☐ x 100 = 0.53

![Corbett maths logo]

Workout

Question 1:   Work out the answers to the following multiplications

(a)   1.2 × 4   (b)   3.2 × 3   (c)   5.3 x 2   (d)   7.3 x 3

(e)   1.6 × 4   (f)   2.9 × 5   (g)   4.2 × 6   (h)   9.5 x 7

(i)   6.7 x 8   (j)   3.8 x 9   (k)   12.8 x 3   (l)   24.3 x 4

(m)   37.5 x 6   (n)   52.8 x 7   (o)   173.2 x 3   (p)   215.8 x 6

(q)   1243.7 x 9   (r)   79.5 x 8

Question 2:   Work out the answers to the following multiplications

(a)   1.26 x 2   (b)   2.63 x 3   (c)   5.14 x 3   (d)   6.28 x 4

(e)   7.53 x 5   (f)   0.38 x 8   (g)   9.62 x 6   (h)   12.38 x 7

(i)   16.42 x 9   (j)   109.34 x 4   (k)   9.08 x 3   (l)   12.04 x 7

(m)   0.383 x 3   (n)   1.442 x 6   (o)   8.291 x 3   (p)   9.623 x 5

(q)   3.706 x 8   (r)   4.953 x 7   (s)   0.482 x 8   (t)   0.085 x 7

(u)   1.3842 x 3   (v)   4.3342 x 6   (w)   8.2039 x 5   (x)   7.3112 x 9

(y)   512.83 x 6   (z)   293.421 x 4

Question 3:   Work out the answers to the following multiplications

(a)   1.24 x 13   (b)   2.51 x 17   (c)   12.5 x 23   (d)   3.28 x 21

(e)   6.35 x 35   (f)   7.65 x 37   (g)   58.2 x 46   (h)   4.23 x 52

(i)   0.28 x 57   (j)   0.817 x 63   (k)   38.43 x 19   (l)   5.45 x 87

(m)   12.32 x 73   (n)   2.3 x 123   (o)   4.7 x 253   (p)   8.6 x 351

(q)   2.03 x 152   (r)   1.02 x 607

Question 4:   Work out the answers to the following multiplications

(a)   0.2 x 0.3   (b)   0.7 x 0.2   (c)   0.9 x 0.4   (d)   0.8 x 0.6

(e)   0.7 x 0.7   (f)   0.6 x 0.5   (g)   0.8 x 0.5   (h)   0.5 x 0.4

(i)   0.8 x 0.1   (j)   0.07 x 0.5   (k)   0.04 x 0.2   (l)   0.8 x 0.07

(m)   0.06 x 0.9   (n)   0.04 x 0.06   (o)   0.08 x 0.03   (p)   0.02 x 0.03

(q)   0.003 x 0.6   (r)   0.9 x 0.002   (s)   0.008 x 0.6   (t)   0.005 x 0.4

(u)   0.007 x 0.02   (v)   0.008 x 0.09   (w)   0.04 x 0.004   (x)   0.005 x 0.003

(y)   0.008 x 0.05   (z)   0.009 x 0.008

Question 5:   Work out the answers to the following multiplications

(a)   3.1 x 0.5   (b)   6.3 x 0.3   (c)   5.4 x 0.7   (d)   9.2 x 0.6

(e)   4.8 x 0.9   (f)   2.4 x 3.2   (g)   9.1 x 1.3   (h)   5.5 x 7.7

(i)   1.7 x 4.3   (j)   9.4 x 4.9   (k)   0.13 x 0.7   (l)   0.48 x 0.3

(m)   0.54 x 0.9   (n)   0.18 x 0.17   (o)   8.3 x 0.37   (p)   3.5 x 0.74

(q)   0.94 x 0.02   (r)   0.38 x 0.06   (s)   0.039 x 0.7   (t)   0.084 x 1.2

(u)   8.1 x 0.05   (v)   9.4 x 0.082   (w)   0.0048 x 0.12

Question 6:   Work out the answers to the following multiplications

(a)   1.29 x 1.4   (b)   3.52 x 2.4   (c)   4.92 x 0.34   (d)   8.12 x 0.29

(e)   6.3 x 2.46   (f)   9.2 x 7.15   (g)   0.843 x 1.9   (h)   0.548 x 2.7

(i)   6.18 x 5.1   (j)   18.2 x 6.4   (k)   5.03 x 2.8   (l)   40.8 x 5.3

Apply

Question 1:   Regan is paid £6.70 per hour. He works 8 hours in a week.
Work out how much Regan should be paid.

Question 2:   Calculate the output

Input   Output

3.8 → x 7 → ?
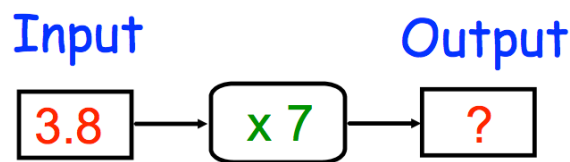
Question 3:   Calculate the area of the rectangle

19.4cm

8cm
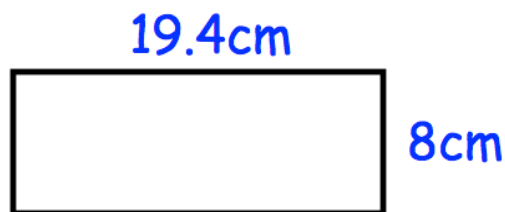
Question 4:   A bottle of cola costs £1.29
Calculate the total cost of 6 bottles of cola.

COLA

Question 5:   Mr and Mrs Jones bring their 5 children to a museum.

Adults   £17.60 each
Children £7.55 each

Work out the total cost for the family.

Question 6:   Class 8A are going on a trip to a windmill.

The trip costs £3.70 each and there are 26 students in 8A.
How much money should be collected?

Question 7:   Mr.Jenkins is building a fence for his garden.
The fence costs £12.60 per metre to build.
The fence is 5.3 metres long.

Work out the total cost of building the fence.

Question 8:   Calculate the area of this rectangle.

6.8cm

2.7cm
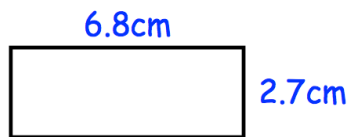
Question 9:   Here are the prices of some fruit in a shop.

£0.97 per kilogram

£1.07 per kilogram

£1.46 per kilogram

Find the total cost of 1.2kg of apples, 3.5kg of oranges and 1.9kg of bananas.

Corbett maths

Workout

Question 1:   Work out

(a)   4.6 ÷ 2   (b) 6.5 ÷ 5   (c) 9.6 ÷ 3   (d) 8.4 ÷ 4

(e)   7.2 ÷ 3   (f) 6.8 ÷ 4   (g) 18.5 ÷ 5   (h) 9.6 ÷ 8

(i)   14.4 ÷ 6   (j) 27.9 ÷ 9   (k) 9.1 ÷ 7   (l) 36.5 ÷ 5

(m) 33.2 ÷ 4   (n) 19.2 ÷ 3   (o) 27.6 ÷ 6   (p) 42.4 ÷ 8

Question 2:   Work out

(a)   3.96 ÷ 3   (b) 0.75 ÷ 5   (c) 8.56 ÷ 4   (d) 0.528 ÷ 6

(e)   5.81 ÷ 7   (f) 0.657 ÷ 9   (g) 2.176 ÷ 8   (h) 0.238 ÷ 7

(i)   0.119 ÷ 7   (j) 0.072 ÷ 6   (k) 2.556 ÷ 3   (l) 3.325 ÷ 5

(m) 701.2 ÷ 4   (n) 9.927 ÷ 9   (o) 12.065 ÷ 5   (p) 0.16024 ÷ 4

Question 3:   Work out

(a)   1.3 ÷ 2   (b) 2.9 ÷ 2   (c) 1.4 ÷ 5   (d) 24.3 ÷ 5

(e)   5.4 ÷ 4   (f) 0.038 ÷ 5   (g) 1.4 ÷ 8   (h) 2.13 ÷ 6

(i)   0.284 ÷ 8   (j) 54.3 ÷ 6   (k) 47.5 ÷ 8   (l) 7.42 ÷ 3

Question 4:   Work out the following divisions

(a)   8.4 ÷ 12   (b) 0.143 ÷ 11   (c) 34.5 ÷ 15   (d) 0.322 ÷ 14

(e)   2.266 ÷ 22   (f) 7.68 ÷ 12   (g) 0.56 ÷ 16   (h) 15.75 ÷ 25

(i)   2.12 ÷ 40   (j) 77.25 ÷ 75   (k) 0.9936 ÷ 23   (l) 3.52 ÷ 110

Corbett
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Apply

Question 1:   Four friends share £6.52 equally.
               How much do they each receive?

Question 2:   James has 3.65m of rope into 5 pieces of equal length.
               How long is equal piece of rope?

Question 3:   The perimeter of a square is 53.3cm.
               Work out the length of equal side.

?

Perimeter = 53.3cm

Question 4:   SuperSaver sells 6 eggs for £1.14
               TopBuys sells 8 eggs for £1.68
               BestBuys sells 12 eggs for £2.64

               Which shop is best value?

Question 5:   Roger is organising a trip to a museum.
               The total price of the tickets is £103.50
               The total price for the coach is £64.80
               If nine people are going on the trip, how much should they pay each?

Question 6:   A shop charges 12p to photocopy one page in full colour.
               Sam has photocopied some pages in colour and the total cost is £16.08
               How many pages did he photocopy?

Question 7:   The perimeter of a regular octagon is 4.096cm
               Calculate the length of each side.

Name:

Determine the placement of the decimal in each product.

$5.809 \times 7.8 = 4\ 5\ 3\ 1\ 0\ 2$

1. Count the quantity of numbers to the right of the decimal for each factor.

5.809 has 3 numbers right of the decimal (5.<u>809</u>)
7.8 has 1 number right of the decimal (7.<u>8</u>)

2. Add the amounts together. Your answer should have the same quantity of numbers to the right of the decimal.

$3 + 1 = 4$
5.<u>089</u> (3) $\times$ 7.<u>8</u> (1) = 45.<u>3102</u> (4)

Also notice that $5 \times 7 = 35$ and $6 \times 8 = 48$, so 5.809×7.8 will be a more than 35 but less than 48.

1) $5.7 \times 7 =$ 3   9   9

2) $7.67 \times 5.444 =$ 4   1   7   5   5   4   8

3) $4.1 \times 8.928 =$ 3   6   6   0   4   8

4) $3.953 \times 6 =$ 2   3   7   1   8

5) $9.814 \times 4.65 =$ 4   5   6   3   5   1   0

6) $9 \times 5.85 =$ 5   2   6   5

7) $9.4 \times 3 =$ 2   8   2

8) $4 \times 3.91 =$ 1   5   6   4

9) $7.81 \times 9 =$ 7   0   2   9

10) $8.479 \times 5.5 =$ 4   6   6   3   4   5

11) $4.137 \times 7.2 =$ 2   9   7   8   6   4

12) $6.7 \times 1.494 =$ 1   0   0   0   9   8

13) $3.5 \times 5 =$ 1   7   5

14) $3.5 \times 6 =$ 2   1   0

15) $8.2 \times 6.651 =$ 5   4   5   3   8   2

16) $9.6 \times 5.98 =$ 5   7   4   0   8

17) $1.89 \times 8.7 =$ 1   6   4   4   3

18) $4.539 \times 4.12 =$ 1   8   7   0   0   6   8

19) $6.947 \times 3.99 =$ 2   7   7   1   8   5   3

20) $1.57 \times 6 =$ 9   4   2

Math   www.CommonCoreSheets.com

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Decimal Multiplication

1.   Calculate:

(a) 0.3 x 20   (b) 0.7 x 30   (c) 0.8 x 60   (d) 0.4 x 40

(e) 0.9 x 50   (f) 0.6 x 70   (g) 0.4 x 80   (h) 0.3 x 90

(i) 0.13 x 30   (j) 0.18 x 50   (k) 0.37 x 20   (l) 0.24 x 40

(m) 0.16 x 60   (n) 0.64 x 80   (o) 0.55 x 80   (p) 0.38 x 70

2.   Calculate:

(a) 1.6 x 30   (b) 1.3 x 20   (c) 2.7 x 40   (d) 5.8 x 80

(e) 8.1 x 60   (f) 7.7 x 90   (g) 1.23 x 20   (h) 1.35 x 50

(i) 2.42 x 40   (j) 3.64 x 80   (k) 9.31 x 60   (l) 8.48 x 90

(m) 7.33 x 30   (n) 6.04 x 50   (o) 412.43 x 20   (p) 16.743 x 70

3.   Calculate:

(a) 0.4 x 200   (b) 0.8 x 300   (c) 0.3 x 600   (d) 0.5 x 400

(e) 0.7 x 500   (f) 0.2 x 700   (g) 0.6 x 800   (h) 0.9 x 900

(i) 0.18 x 300   (j) 0.26 x 500   (k) 0.77 x 200   (l) 0.47 x 400

(m) 0.32 x 600   (n) 0.87 x 800   (o) 0.99 x 800   (p) 0.08 x 700

4.   Calculate:

(a) 2.4 x 200   (b) 3.6 x 300   (c) 1.9 x 600   (d) 8.5 x 400

(e) 4.4 x 500   (f) 6.2 x 700   (g) 1.65 x 800   (h) 3.26 x 900

(i) 4.77 x 3000 (j) 3.58 x 5000 (k) 8.58 x 2000 (l) 9.07 x 4000

(m) 1.353 x 600 (n) 4.625 x 8000 (o) 13.682 x 800 (p) 425.14 x 7000

5.   Calculate:

(a) 0.4 x 40   (b) 5.2 x 200   (c) 4.82 x 600   (d) 0.16 x 30

(e) 13.4 x 500   (f) 0.57 x 90   (g) 3.6 x 700   (h) 6.28 x 90

(i) 0.9 x 2000   (j) 24.54 x 60   (k) 0.71 x 400   (l) 8.8 x 3000

(m) 2.49 x 80   (n) 13.437 x 50   (o) 54.71 x 900   (p) 154.743 x 8000

6.   A school buys 80 calculators at £5.85 each. What is the total cost?

7.   What is the total weight of a pack of 500 nails each weighing 1.6g?

8.   A tourist receives £0.82 for every dollar she exchanges.
       How much (in pounds) will she receive if she exchanges $3000?

9.   A charity sells 400 badges and makes a profit of £2.40 on each one.
       How much will it raise in total?

10.   A fruit picker can gather in an average of 13.8kg of fruit per day.
       What weight of fruit will be picked on a farm with 70 fruit pickers?

11.   Calculate the total cost of this building project:

         20 sheets of plywood at £14.25 per sheet

         80 wood joists at £9.50 each

         300 aluminium brackets at £1.59 each

         5000 wood screws at £2.15 for a box of 100.

Decimal Division (and Multiplication)

1. Calculate:

(a) $82 \div 20$ (b) $66 \div 30$ (c) $138 \div 60$ (d) $172 \div 40$

(e) $185 \div 50$ (f) $469 \div 70$ (g) $344 \div 80$ (h) $711 \div 90$

(i) $185.1 \div 30$ (j) $137.5 \div 50$ (k) $229.4 \div 20$ (l) $409.6 \div 40$

(m) $226.2 \div 60$ (n) $367.2 \div 90$ (o) $201.36 \div 80$ (p) $1082.9 \div 70$

2. Calculate:

(a) $27 \div 30$ (b) $18 \div 60$ (c) $8 \div 20$ (d) $42 \div 70$

(e) $36 \div 40$ (f) $35.5 \div 50$ (g) $25.2 \div 90$ (h) $52.8 \div 80$

(i) $96 \div 50$ (j) $12.48 \div 20$ (k) $16.2 \div 90$ (l) $27.3 \div 70$

(m) $2.4 \div 60$ (n) $219.2 \div 80$ (o) $22.84 \div 40$ (p) $3.936 \div 60$

3. Calculate:

(a) $82 \div 20$ (b) $66 \div 30$ (c) $138 \div 60$ (d) $172 \div 40$

(e) $185 \div 50$ (f) $469 \div 70$ (g) $344 \div 80$ (h) $711 \div 90$

(i) $185.1 \div 30$ (j) $137.5 \div 50$ (k) $229.4 \div 20$ (l) $409.6 \div 40$

(m) $226.2 \div 60$ (n) $367.2 \div 90$ (o) $201.36 \div 80$ (p) $1082.9 \div 70$

4. Calculate:

(a) $720 \div 300$ (b) $360 \div 200$ (c) $1280 \div 400$ (d) $180 \div 300$

(e) $300 \div 500$ (f) $1050 \div 700$ (g) $180 \div 600$ (h) $280 \div 400$

(i) $1000 \div 800$ (j) $2205 \div 900$ (k) $60 \div 500$ (l) $3780 \div 700$

(m) $7200 \div 2000$ (n) $150 \div 3000$ (o) $4000 \div 5000$ (p) $1940 \div 4000$

5. 40 identical crates are loaded onto a truck.
    The total weight of the crates is 224kg. How much does each crate weigh?

6. A spindle of 30 blank CDs costs £22.50. How much does 1 CD cost?

7. A bottle contains 360ml of medicine. It states that this is enough for 80 doses.
    How many millilitres is one dose of medicine?

8. A book containing 200 pages is 2.82cm thick. How thick is one page?

9. A companyy buys 50 containers at £15.50 each. What is the total cost?

10. A pack of 100 drawing pins weighs 18.2g.
     What is the weight of one drawing pin?

11. A shop sells 200 cans of Irn Bru in a month and makes a profit of £0.26 on each
     can. How much profit does the shop make on selling the cans that month?

12. A farmer constructs a sheep pen from 40 identical sections of fencing.
     The total perimeter of the pen is 92 metres.
     How long is each section of fencing?

13. On a fruit farm, 589.4kg of fruit is picked by 70 pickers.
     What is the average weight of fruit picked by each worker?