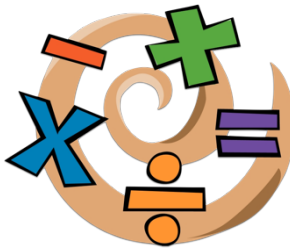




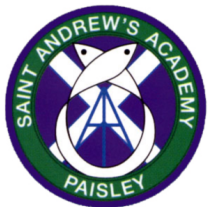
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Mathematics Department

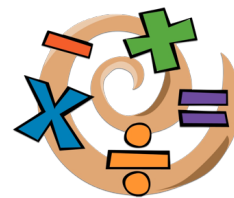


COURSE 2 BLOCK 7

***PRE-ASSESSMENT
LEARNING EVALUATION***



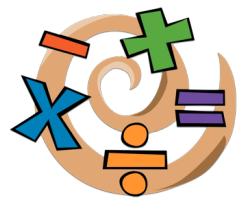
COURSE 2 BLOCK 7 LEARNING EVALUATION



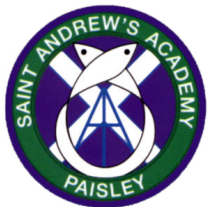
	Red	Amber	Green	Revision Exercise
NUMBER				
<ul style="list-style-type: none">I can use non-calculator strategies to perform calculations using the four operations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
<ul style="list-style-type: none">I can confidently use the negative number line and answer problems in context.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none">Number Exercise 1
<ul style="list-style-type: none">I can add and subtract with negative numbers: e.g. a) $-5 + 4 = -1$ b) $3 - 7 = -4$ c) $3 + (-2) = 1$ d) $5 - (-2) = 7$ e) $(-4) + (-8) = -12$ e) $(-1) - (-9) = 8$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none">Number Exercise 2
<ul style="list-style-type: none">I can multiply positive and negative numbers together: e.g. a) $(-6) \times 5 = -30$ b) $(-2) \times (-7) = 14$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none">Number Exercise 3
<ul style="list-style-type: none">I can divide positive and negative numbers together: e.g. a) $(-16) \div 8 = -2$ b) $(-12) \div (-3) = 4$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none">Number Exercise 3 <p>Extra Practice on mixed questions Exercise 4 and 5</p>



COURSE 2 BLOCK 7 LEARNING EVALUATION



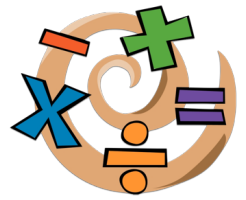
	Red	Amber	Green	Revision Exercise
ALGEBRA				
<ul style="list-style-type: none"> I can remove brackets and simplify e.g. a) $5(x + 4) - 7$ $= 5x + 20 - 7$ $= 5x + 13$ b) $8(x + 2) - 3(2x - 5)$ $= 8x + 16 - 6x + 15$ $= 2x + 31$ I can solve equations with letters and numbers on both sides: e.g. $8x + 4 = 2x + 40$ $\begin{array}{r} -4 \qquad -4 \\ 8x \qquad = 2x + 36 \\ -2x \qquad -2x \\ 6x \qquad = 36 \\ \div 6 \qquad \div 6 \\ x \qquad = 6 \end{array}$ I can solve equations with brackets: e.g. a) $4(y - 3) = 20$ $4y - 12 = 20$ $\qquad + 12 \qquad + 12$ $4y \qquad = 32$ $\div 4 \qquad \div 4$ $Y \qquad = 8$ b) $5(3x - 2) = 4(x + 3)$ $15x - 10 = 4x + 12$ $\qquad + 10 \qquad + 10$ $15x \qquad = 4x + 22$ $-4x \qquad -4x$ $11x \qquad = 22$ $\div 11 \qquad \div 11$ $X \qquad = 2$ I can solve equations involving fractions: e.g. a) $\frac{1}{2}x - 5 = 2$ $\qquad + 5 \qquad + 5$ $\frac{1}{2}x \qquad = 7$ $x2 \qquad x2$ $x \qquad = 14$ 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Algebra Exercise 1 Q1
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Algebra Exercise 1 Q2
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Algebra Exercise 2
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Algebra Exercise 3
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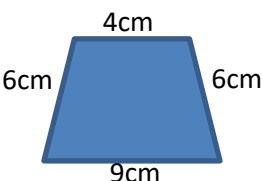
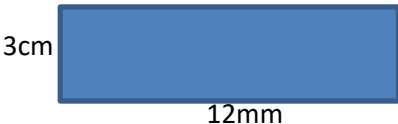
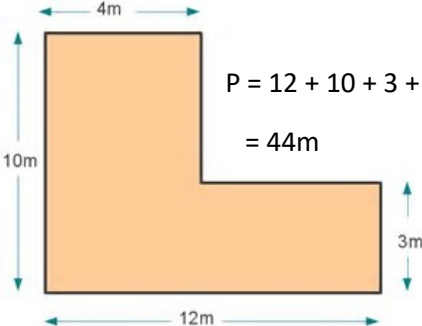




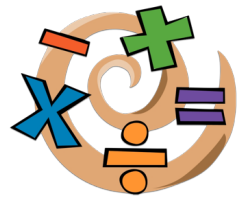
COURSE 2 BLOCK 7 LEARNING EVALUATION

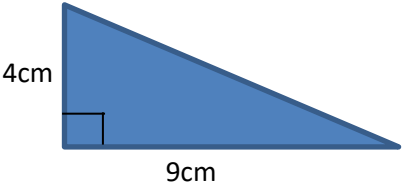
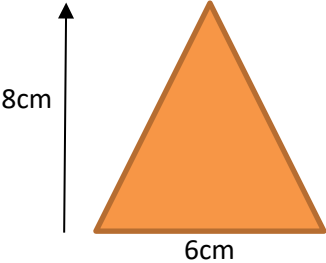



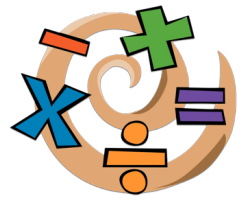
$\begin{aligned} \text{b) } \frac{2}{3}x + 2 &= 8 \\ &\quad -2 \quad -2 \\ \frac{2}{3}x &= 6 \\ \times 3 &\quad \times 3 \\ 2x &= 18 \\ \div 2 &\quad \div 2 \\ x &= 9 \end{aligned}$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none">Algebra Exercise 4 Q1
$\begin{aligned} \text{c) } \frac{4y+5}{3} &= 7 \\ \times 3 &\quad \times 3 \\ 4y+5 &= 21 \\ -5 &\quad -5 \\ 4y &= 16 \\ \div 4 &\quad \div 4 \\ y &= 4 \end{aligned}$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none">Algebra Exercise 4 Q2 + 3

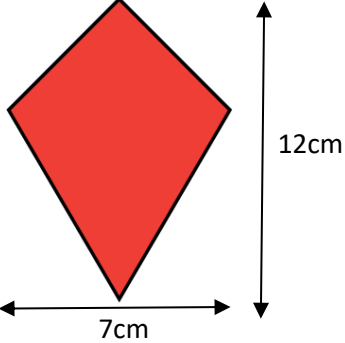
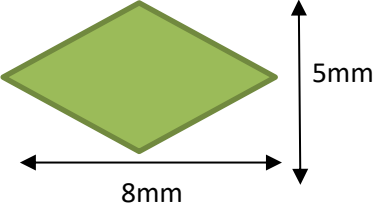
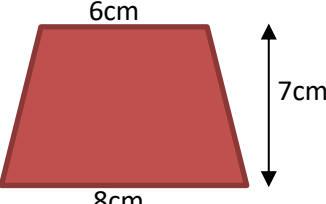
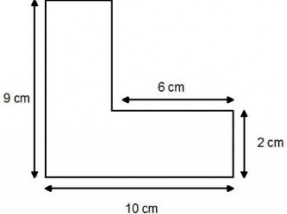


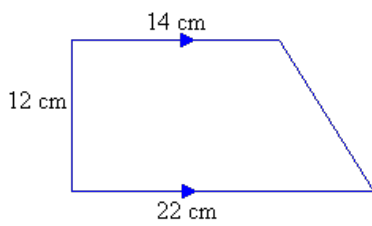
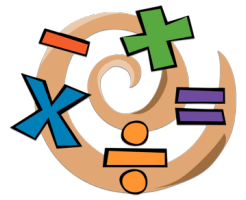
		Red	Amber	Green	Revision Exercise
LENGTH, PERIMETER AND VOLUME					
<ul style="list-style-type: none"> I can convert between units of length, such as mm, cm, m and km. I can calculate the perimeter of a shape: (Remember sometimes you must work out missing lengths before you work out the perimeter.) 		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 1 Length, Perimeter, Area and Volume Exercise 2
<p>e.g. a)</p>  $P = 9 + 6 + 6 + 4$ $= 25\text{cm}$ <p>b)</p>  $P = 12 + 3 + 12 + 3$ $= 30\text{mm}$ <p>c)</p>  $P = 12 + 10 + 3 + 8 + 7 + 4$ $= 44\text{m}$		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
<ul style="list-style-type: none"> I can work out the area of a square and a rectangle, ensuring I show all lines of working: <p>e.g. a) Square</p>  $A = l \times b$ $A = 5 \times 5$ $A = 25\text{cm}^2$ <p>b) Rectangle</p>  $A = l \times b$ $A = 8.5 \times 4$ $A = 34\text{m}^2$		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 3, Q1+2



<p>○ I can work out the area of a triangle, ensuring I show all lines of working: e.g. a) Right-Angled Triangle</p>  <p style="margin-left: 40px;">$A = \frac{1}{2} \times l \times b$ $A = \frac{1}{2} \times 9 \times 4$ $A = \frac{1}{2} \times 36$ $A = 18\text{cm}^2$</p> <p>b) Any Triangle</p>  <p style="margin-left: 40px;">$A = \frac{1}{2} \times b \times h$ $A = \frac{1}{2} \times 6 \times 8$ $A = \frac{1}{2} \times 48$ $A = 24\text{cm}^2$</p>	○	○	○	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 3, Q3
<p>○ I can work out the area of a parallelogram, ensuring I show all line of working: e.g.</p>  <p style="margin-left: 40px;">$A = B \times H$ $A = 9 \times 4$ $A = 36\text{m}^2$</p>	○	○	○	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 4 Q1



<p>○ I can work out the area of a Kite and a Rhombus, ensuring I show all line of working: e.g. a) A kite</p>  $A = \frac{1}{2} \times D \times d$ $A = \frac{1}{2} \times 12 \times 7$ $A = \frac{1}{2} \times 84$ $A = 42\text{cm}^2$	○	○	○	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 4 Q3a + b
<p>b) A Rhombus</p>  $A = \frac{1}{2} \times D \times d$ $A = \frac{1}{2} \times 8 \times 5$ $A = \frac{1}{2} \times 40$ $A = 20\text{mm}^2$	○	○	○	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 4 Q3c + d
<p>○ I can work out the area of a Trapezium, ensuring I show all line of working: e.g.</p>  $A = \frac{1}{2} (a + b) \times h$ $A = \frac{1}{2} (8 + 6) \times 7$ $A = \frac{1}{2} (14) \times 7$ $A = 7 \times 7$ $A = 49\text{cm}^2$	○	○	○	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 4 Q2
<p>○ I can work out the area of a Composite, ensuring I show all line of working: e.g.</p>  $A_1 = L \times B$ $A_1 = 9 \times 4$ $A_1 = 36\text{cm}^2$ $A_2 = L \times B$ $A_2 = 6 \times 2$ $A_2 = 12\text{cm}^2$ $\text{Total Area} = 36 + 12 = 48\text{cm}^2$	○	○	○	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 6



$$A_1 = L \times B \quad A_2 = \frac{1}{2} \times L \times B$$

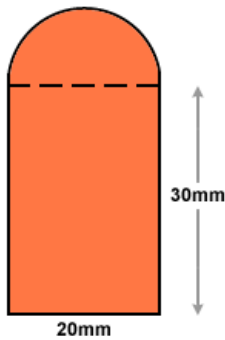
$$A_1 = 12 \times 14 \quad A_2 = \frac{1}{2} \times 8 \times 12$$

$$A_1 = 168\text{cm}^2 \quad A_2 = 48\text{cm}^2$$

$$\text{Total Area} = 168 + 48$$

$$= 216\text{cm}^2$$

- Length, Perimeter, Area and Volume Exercise 6



$$A_1 = L \times B \quad A_2 = \pi \times r^2$$

$$A_1 = 20 \times 30 \quad A_2 = \pi \times 10^2 \div 2$$

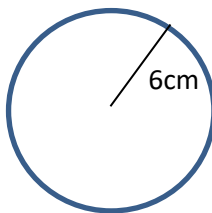
$$A_1 = 600\text{mm}^2 \quad A_2 = 157.08\text{mm}^2$$

$$\text{Total Area} = 600 + 157.08$$

$$= 757.08\text{mm}^2$$

- Length, Perimeter, Area and Volume Exercise 6

- I can calculate the circumference of a circle: e.g.



$$C = \pi \times D$$

$$C = \pi \times 12$$

$$C = 37.7 \text{ cm (to 1 dp)}$$

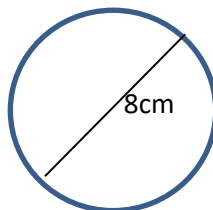
- Length, Perimeter, Area and Volume Exercise 5 Q1

- I can calculate the area of a circle: e.g.

$$A = \pi \times r^2$$

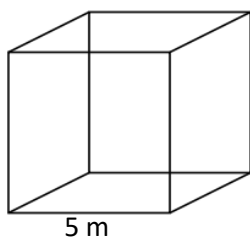
$$A = \pi \times 4^2$$

$$A = 50.3\text{m}^2 \text{ (to 1 dp)}$$



- Length, Perimeter, Area and Volume Exercise 5 Q2

- I can calculate the volume of a cube and a cuboid. e.g. a) A cube

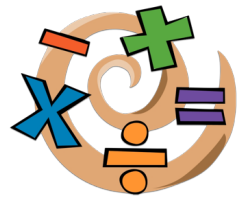


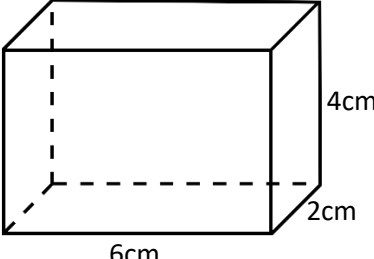
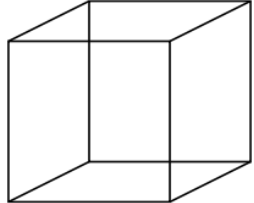
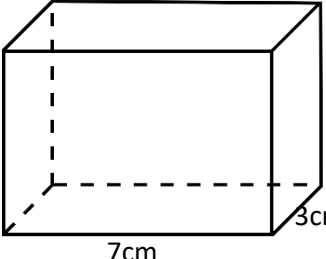
$$V = l \times b \times h$$

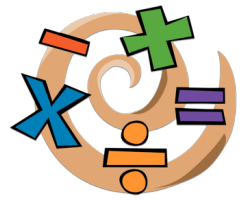
$$V = 5 \times 5 \times 5$$

$$V = 125\text{m}^3$$

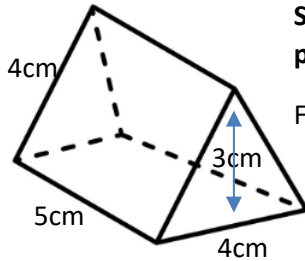
- Length, Perimeter, Area and Volume Exercise 7



<p>b) A cuboid</p>  <p style="margin-left: 400px;">$V = l \times b \times h$ $V = 6 \times 2 \times 4$ $V = 48\text{cm}^3$</p>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 7
<ul style="list-style-type: none"> I understand that $1\text{cm}^3 = 1\text{ml}$ and can use this information to calculate liquid volume. I can solve problems involving area and volume. I recognise 3D objects by their nets. I can find the surface area of cubes and cuboids. e.g. 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 8
<ul style="list-style-type: none"> I can solve problems involving area and volume. 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 8
<ul style="list-style-type: none"> I recognise 3D objects by their nets. 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 9
<p>a) Surface Area of cube:</p>  <p style="margin-left: 400px;">One face: $A = l \times b$ $A = 6 \times 6$ $A = 36\text{cm}^2$ Six faces = $6 \times 36 = 216\text{cm}^2$</p>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 10 Q1
<p>b) Surface Area of cuboid:</p>  <p style="margin-left: 400px;">First face: $A = l \times b$ $A = 7 \times 3$ $A = 21\text{cm}^2$</p> <p>Second face: $A = l \times b$ Third face: $A = l \times b$ $A = 7 \times 4$ $A = 3 \times 4$ $A = 28\text{cm}^2$ $A = 12\text{cm}^2$</p> <p>Total Surface Area = $21 + 21 + 28 + 28 + 12 + 12 = 122\text{cm}^2$</p>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<ul style="list-style-type: none"> Length, Perimeter, Area and Volume Exercise 10 Q1



- o I can find the surface area of triangular prism.
e.g.



Surface area of triangular prism:

First face: $A = l \times b$

$$A = 5 \times 4$$

$$A = 20\text{cm}^2$$

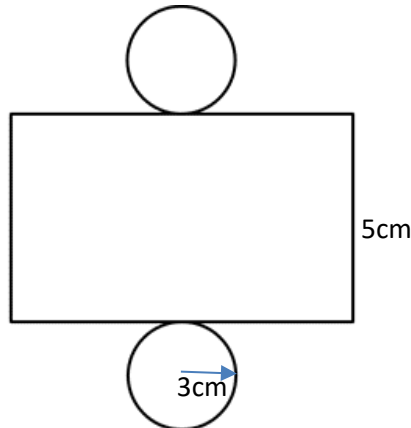
Second face: $A = \frac{1}{2} \times b \times h$

$$A = \frac{1}{2} \times 4 \times 3$$

$$A = 6\text{cm}^2$$

Total Surface Area = $20 + 20 + 20 + 6 + 6 = 72\text{cm}^2$

- o I can find the surface area of a cylinder.



Surface area of cylinder:

Finding the length of the rectangle: $C = \pi \times D$

First face: $A = \pi \times r^2$

$$A = \pi \times 3^2$$

$$A = 28.27\text{cm}^2(\text{to } 2\text{dp})$$

$$C = \pi \times 6$$

$$C = 18.85\text{cm}$$

(to 2dp)

Second face: $A = l \times b$

$$A = 18.85 \times 5$$

$$A = 94.25\text{cm}^2(\text{to } 2\text{dp})$$

Total surface area = $28.27 + 28.27 + 94.25 = 150.79\text{cm}^2$



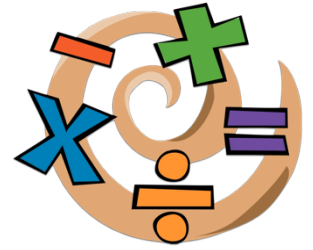
- Length, Perimeter, Area and Volume
Exercise 10 Q2



- Length, Perimeter, Area and Volume
Exercise 10 Q3



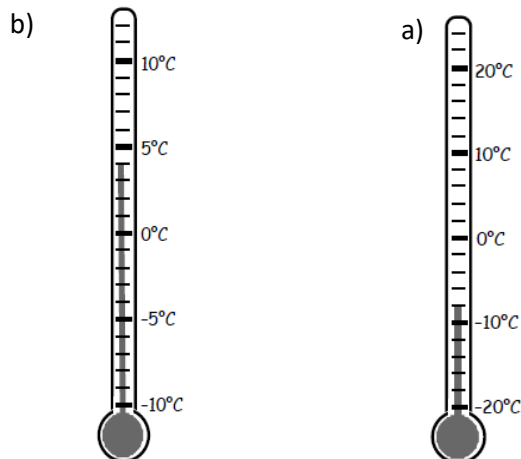
COURSE 2 BLOCK 7 REVISION



NUMBER REVISION

Exercise 1

1. Read the following thermometers and state the temperature:



2. Put these temperatures in order, the lowest first.
 2°C , -8°C , -1°C , -6°C , -4°C
3. Which of these temperatures is lowest?
i) -4°C or -2°C ii) -16°C or -17°C
4. The temperature in Paisley one day in December was 6°C . The temperature fell by 8 degrees by 1am. What is the temperature now?
5. What is the difference in temperature between -4°C and 14°C ?
6. What number is 10 up from -37 .
7. What number is 8 down from -23 .
8. The temperature in Moscow was -12°C at 4am. By 2pm the temperature had risen by 7° . What was the temperature at 2pm?
9. The temperature in Russia one afternoon was -7°C . By night fall the temperature had fallen by 11° . What was the temperature at night fall?

Exercise 2

1. State which of following statements are true or false.
a) $8 > 3$ b) $-2 < 5$ c) $0 < -1$ d) $-9 > -4$
2. Complete the following calculations:
a) $2 - 7$ b) $(-3) + 8$ c) $(-5) - 9$ d) $12 - 20$

- e) $(-18) + 6$ f) $(-13) + 7$ g) $3 + (-10)$ h) $10 + (-4)$
 i) $0 + (-18)$ j) $(-6) + (-8)$ k) $(-2) + (-16)$ l) $(-19) + (-20)$

3. Complete the following calculations:

- a) $4 - 18$ b) $(-6) - 15$ c) $7 - (-10)$ d) $0 - (-19)$
 e) $(-8) - (-3)$ f) $(-17) - (-5)$ g) $(-2) - (-11)$ h) $(-39) - (-20)$
 i) $(-6) - (-4)$ j) $(-10) - (-9)$ k) $(-20) - (-15)$ l) $(-50) - (-30)$

Exercise 3

Complete the following calculations:

- a) $35 \div (-7)$ b) $(-2) \times 9$ c) $(-30) \div 5$ d) $(-9) \times (-8)$
 e) $7 \times (-4)$ f) $(-12) \times 5$ h) $(-54) \div (-9)$ i) $(-48) \div 6$
 k) $(-8) \times (-4)$ l) $7 \times (-13)$ m) $(-100) \div (-20)$ n) $50 \div (-2)$

Exercise 4

1. Complete the following calculations:

- a) $7 - 19$ b) $(-5) + 12$ c) $(-4) \times 8$ d) $1 + (-16)$
 e) $(-8) + (-15)$ f) $(-9) - (-14)$ g) $(-63) \div 9$ h) $(-28) - (-10)$
 i) $(-14) \times (-6) =$ j) $(-8) - 13$ k) $(-15) + (-12)$ l) $120 \div (-2)$
 m) $(-49) \div 7$ n) $(-17) - (-21)$ o) $2 + (-14)$ p) $(-6) \times 5$
 q) $7 - (-10)$ r) $32 \div (-8)$ s) $(-4) + (-9)$ t) $(-1) - (-17)$
 u) $13 \times (-4)$ v) $(-66) \div (-11)$ w) $(-18) - (-12)$ x) $5 + (-16)$
 y) $(-9) \times (-7)$ z) $(-2) + (-11)$

Exercise 5

Complete the following calculations:

1. $(-7) + 8$ 2. $3 - 10$ 3. $4 + (-18)$
 4. $(-9) \times 6$ 5. $6 - (-17)$ 6. $(-3) - (-5)$
 7. $63 \div (-7)$ 8. $(-4) \times (-8)$ 9. $(-25) - (-12)$
 10. $2 + (-19)$ 11. $(-54) \div 6$ 12. $(-10) + (-36)$
 13. $5 \times (-13)$ 14. $(-42) \div (-7)$ 15. $(-50) - (-28)$

ALGEBRA REVISION

Exercise 1

1. Remove the brackets and simplify:

(a) $2(q + 4) + 3$ (b) $3(e + 1) + 6$ (c) $5(t + 4) + 2$ (d) $6(u + 2) - 7$
(e) $4(p + 2) - 7$ (f) $80v + 10(7v + n)$ (g) $12 - 2(x - 5)$

2. Remove the brackets and simplify:

(a) $3(m + 2) + 4(m + 1)$ (b) $5(b + 2) + 2(b + 4)$ (c) $8(c + 1) + 3(c + 6)$
(d) $2(8t - 2) + 5(2t + 4)$ (e) $6(4 - 5e) + 7(2 + 4e)$ (f) $4(2x + 1) - 3(x + 2)$
(g) $9(x + 1) - 6(x - 2)$ (h) $x(8x - 2) - 2(3x - 8)$

Exercise 2

Solve the following equations:

1. $x + 3 = 9$	2. $2x = 6$	3. $4 - x = 5$
4. $2x + 3 = 13$	5. $2x = 1$	6. $3x = 2$
7. $4x = 20$	8. $4x - 1 = 19$	9. $4x = -20$
10. $2x = -6$	11. $4x = -8$	12. $4x = -1$
13. $2x + 3 = -5$	14. $2x - 3 = 5$	15. $2x - 3 = x + 2$
16. $7x - 3 = 2x + 12$	17. $7y - 8 = 5y + 2$	
18. $4x + 5 = 2x - 11$	19. $5x - 6 = 2x - 15$	
20. $x + 2x = -15$	21. $3x - 5 = 4x - 7$	
22. $2x + 7 = 5x - 3$	23. $2x + 7 = 12 - 3x$	
24. $6y - 2 = 8y - 5$	25. $8 - 4x = 10 - 2x$	

Exercise 3

Remove the brackets and solve the following equations:

a) $3(x - 5) = 12$ b) $5(2x - 3) = 15$ c) $5(3 - 2x) = 30$ d) $3(2x - 4) = 8$
e) $7x + 2 = 5(x - 2)$ f) $22 - 3x = 2(x + 6)$ g) $13 - 3x = 4(x - 2)$
h) $x - 18 = 2(2x - 3)$ i) $4(2x - 3) = 3x - 27$ j) $3(x - 2) + 2(x + 4) = 17$
k) $5(2x + 1) + 6(1 - 2x) = 1$ (l) $2(3x + 1) + 3(x - 4) = 4x + 5$
m) $4(3x - 6) + 5(x + 1) = 5x + 5$ (n) $4(x + 5) - 2(x + 1) = 30$
o) $2(4x + 1) - 3(x - 3) = x + 35$

Exercise 4

1. Solve the following equations:

a) $\frac{1}{2}x + 6 = 10$ b) $\frac{1}{4}y - 5 = 2$ c) $\frac{1}{7}a + 3 = -4$ d) $\frac{2}{3}x - 4 = 6$

e) $\frac{3}{5}x + 3 = 9$ f) $\frac{3}{8}x + 10 = 19$

2. Solve the following equations:

(a) $\frac{x+1}{2} = 3$ (b) $\frac{w-4}{3} = 2$ (c) $\frac{x-2}{7} = 6$ (d) $\frac{w+9}{4} = 8$

(e) $\frac{w-25}{3} = -7$ (f) $\frac{x+2}{4} = -1$ (g) $\frac{w+20}{8} = -2$ (h) $\frac{x-9}{4} = -2$

3. Solve the following equations:

(a) $\frac{3x+5}{2} = 7$ (b) $\frac{5x-12}{3} = 11$ (c) $\frac{4x+2}{6} = 5$ (d) $\frac{10x+3}{4} = 4$

(e) $\frac{5x-8}{2} = 10$ (f) $\frac{8x+4}{5} = 12.8$ (g) $\frac{2x+13}{3} = 1$ (h) $\frac{3x-4}{7} = -4$

LENGTH, PERIMETER AND AREA REVISION

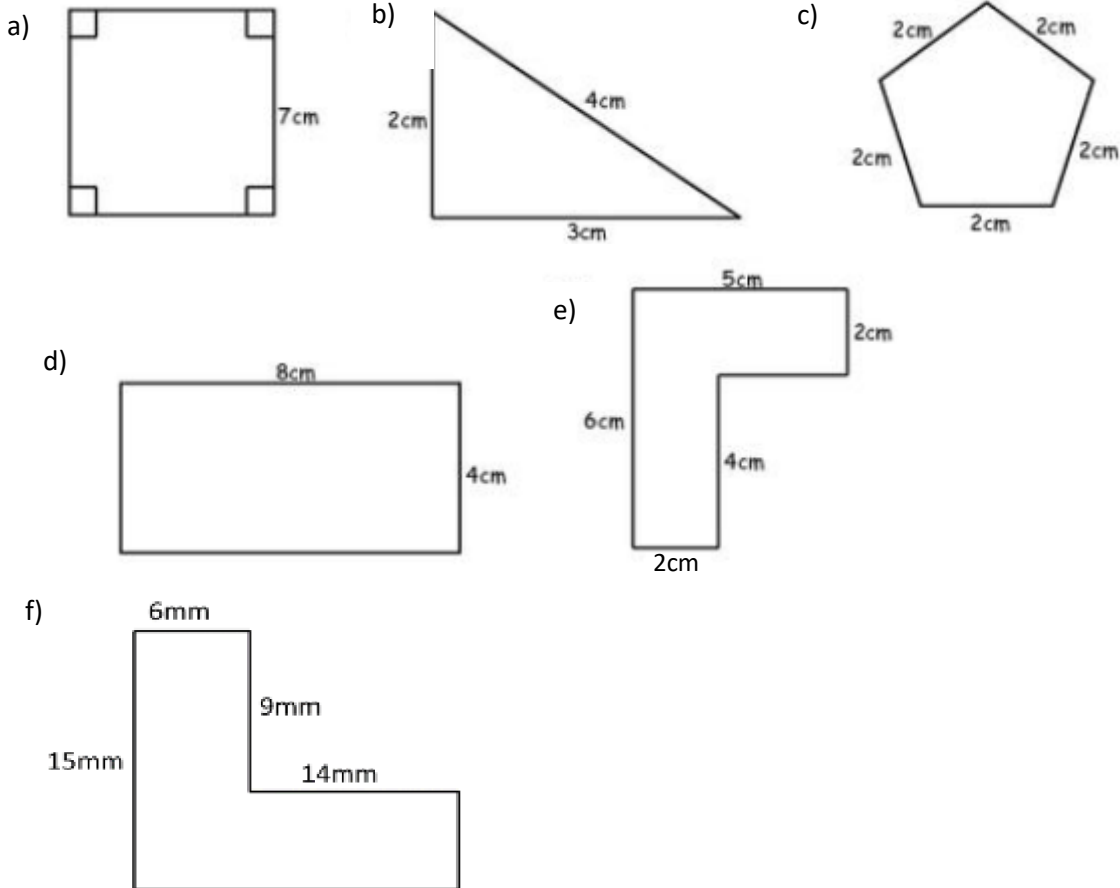
Exercise 1

1. Convert each of the following units:

- a) 6cm to mm b) 7.2cm to mm c) 850mm to cm d) 9mm to cm
e) 8m to cm f) 12.3m to cm g) 800cm to m h) 1.8m to cm
i) 0.7m to cm j) 3km to m k) 6.3km to m l) 42700m to km

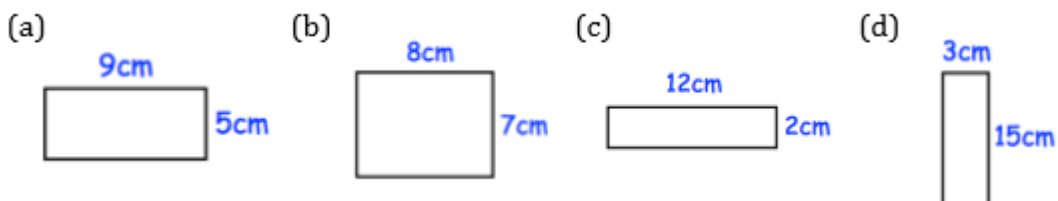
Exercise 2

1. Calculate the perimeter of the following shapes:

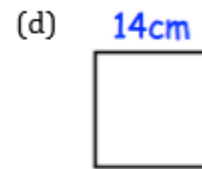
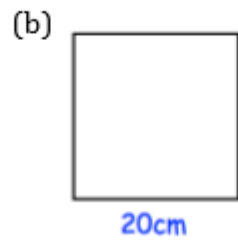
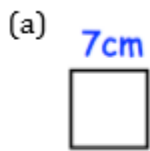


Exercise 3

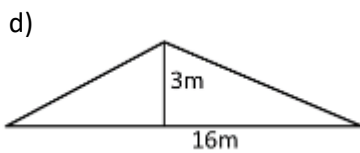
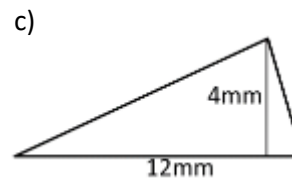
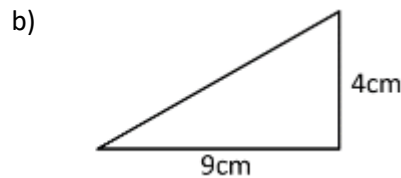
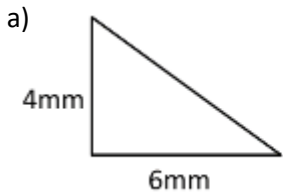
1. Calculate the area of the following rectangles:



2. Calculate the area of the following squares:

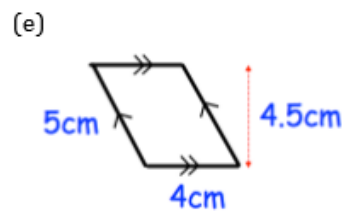
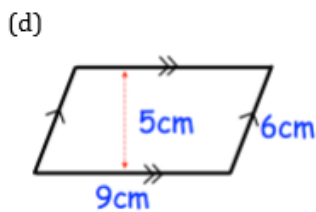
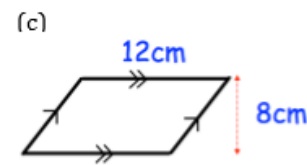
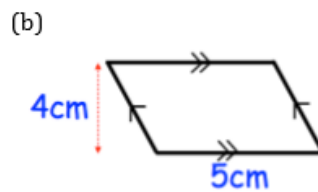
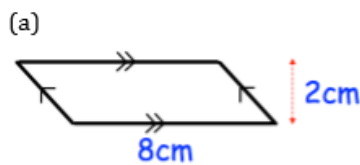


3. Calculate the area of the following triangles

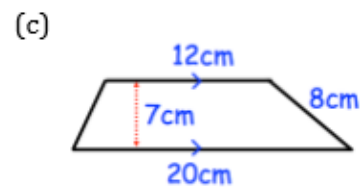
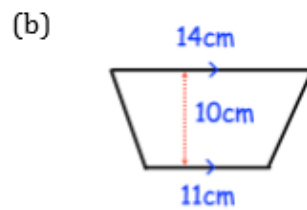
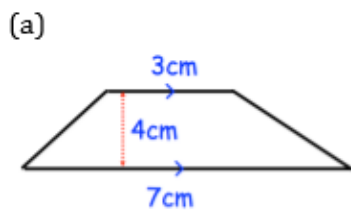


Exercise 4

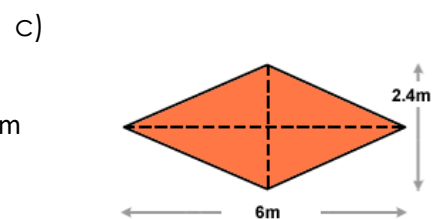
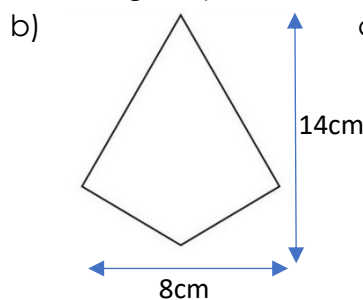
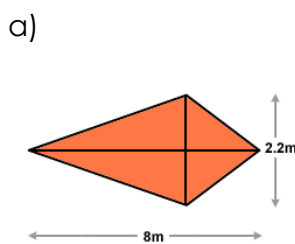
1. Calculate the area of the following shapes:

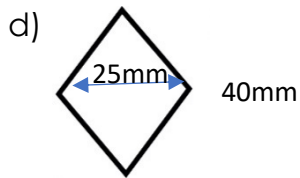


2. Calculate the area of the following shapes:



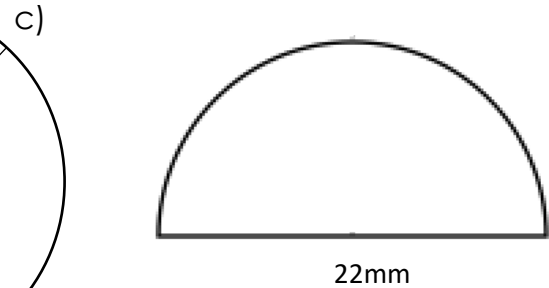
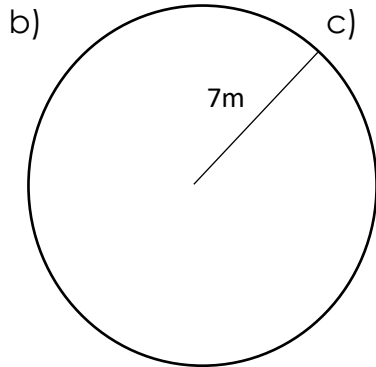
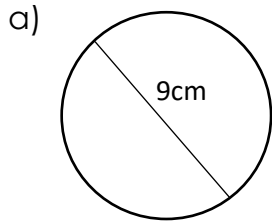
3. Calculate the area of the following shapes:



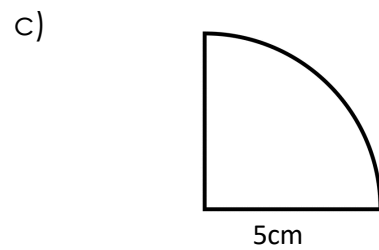
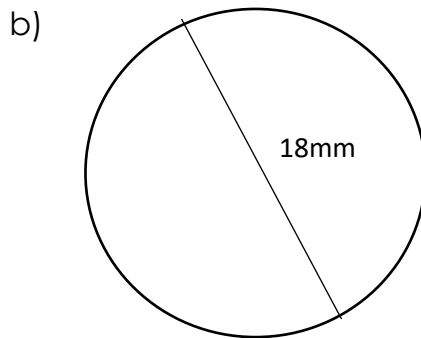
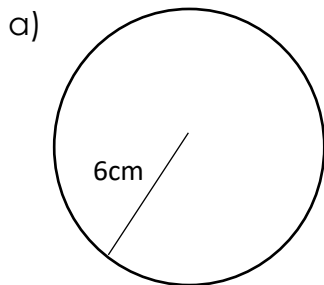


Exercise 5

1. Calculate the circumference of each of the following circles:

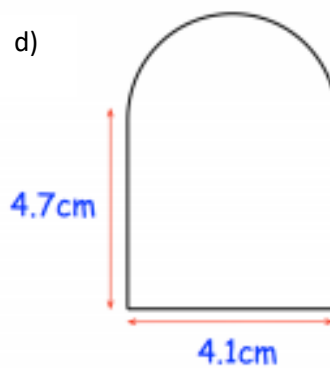
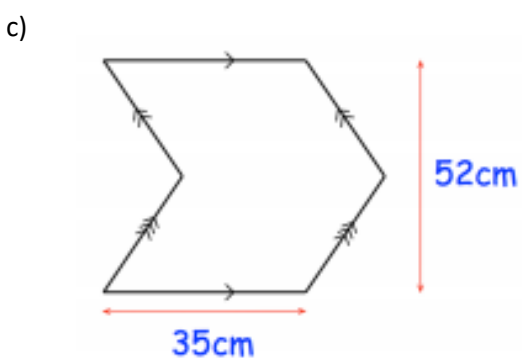
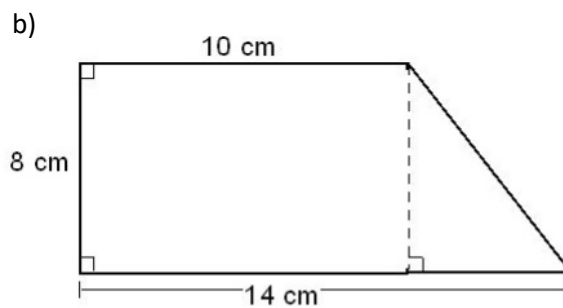
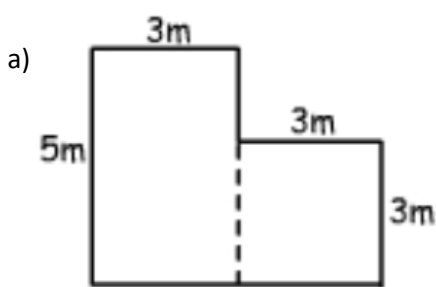


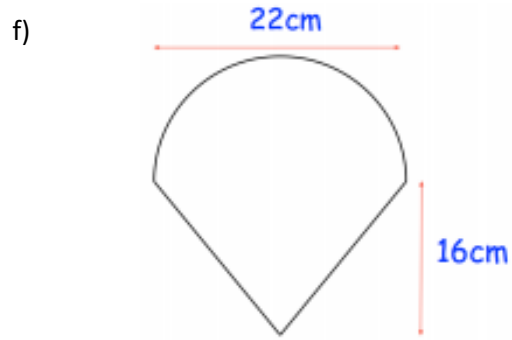
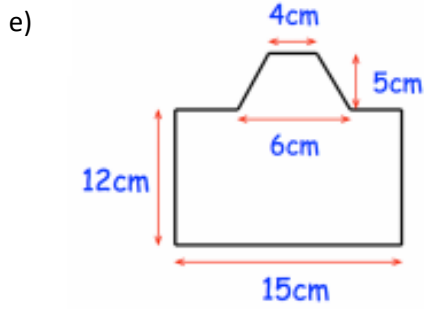
2. Calculate the area of each of the following circles:



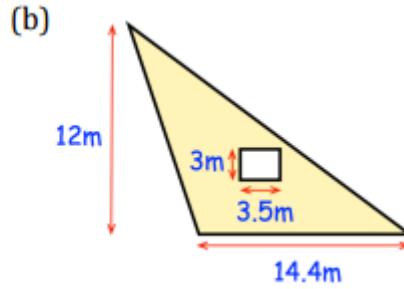
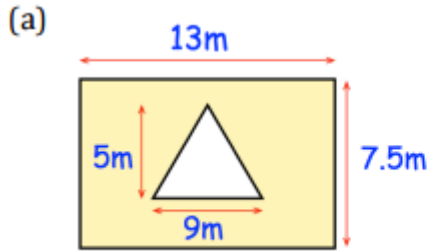
Exercise 6

1. Calculate the area of the following shapes:



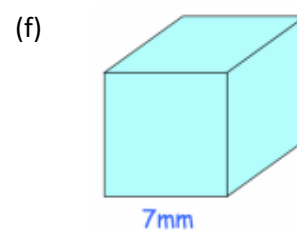
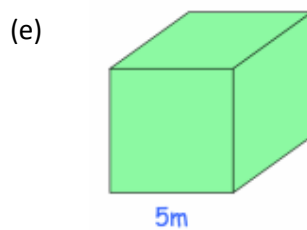
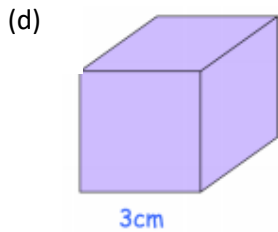
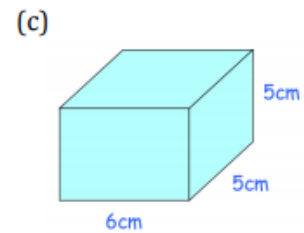
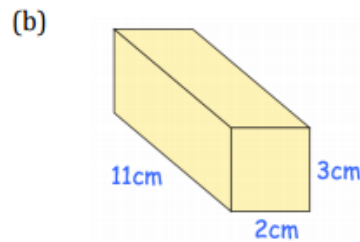
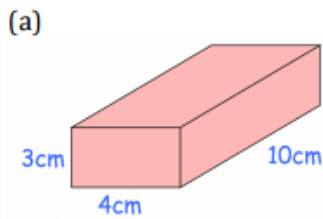


2. Calculate the shaded area in each of the



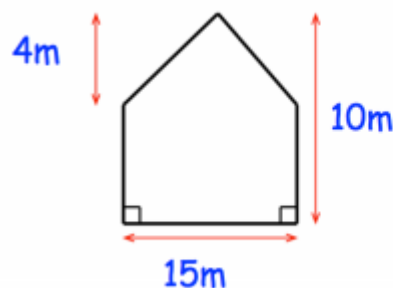
Exercise 7

1. Calculate the volume of each of the following shapes:










Exercise 8

- Find the volume of a water tank that is 80cm long, 40cm wide and 20cm high. Give your answer in litres.
- William is painting the side of his house. He has 8 litres of paint and each litre of paint covers 16m^2 . Does William have enough paint




Exercise 9


Copy and complete the table:

	Name of shape	What shapes are the faces?	Which net?
	Triangular prism	2 triangles, 3 rectangles	C
			
			
			
			
			
			

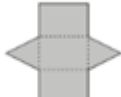
A




B




C




D




E



F

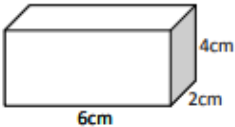
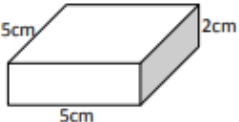
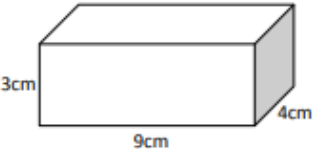
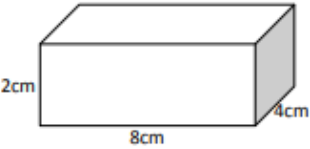
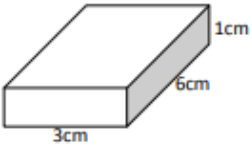
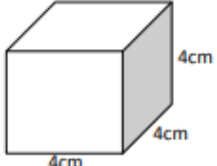
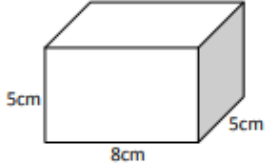
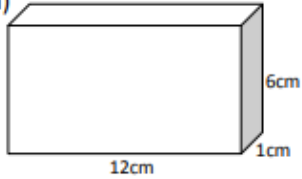


G

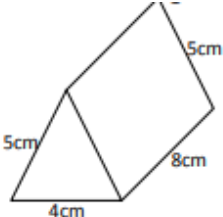
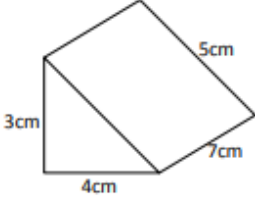
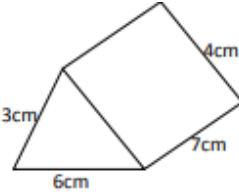
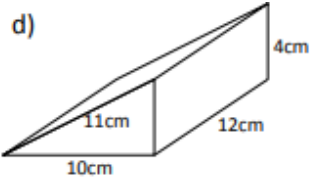


Exercise 10

1. Calculate the surface area of each of the following shapes:

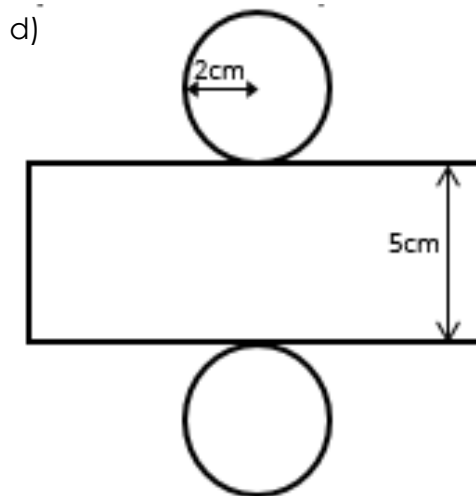
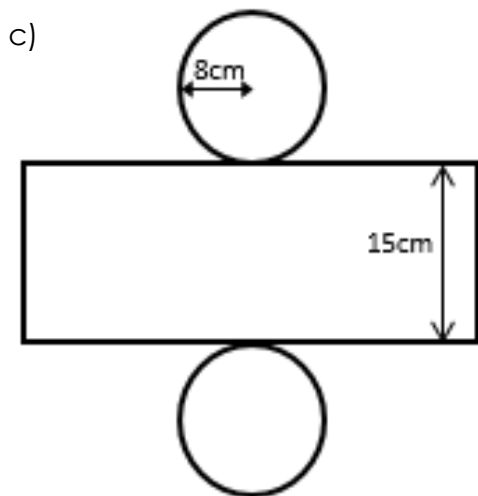
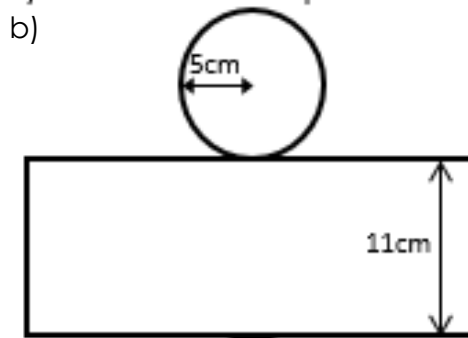
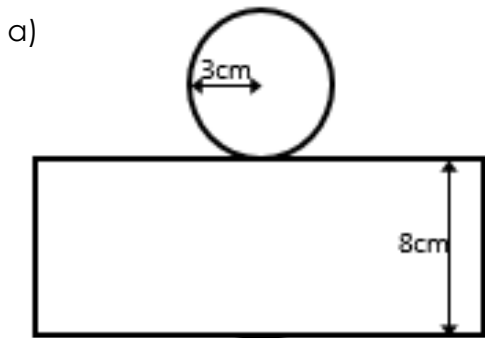
- a) 
- b) 
- c) 
- d) 
- e) 
- f) 
- g) 
- h) 

2. Calculate the surface area of each of the following triangular prisms:

- a) 
- b) 
- c) 
- d) 

3. Use the nets below to find the surface area of the cylinders.

Give your answer to two decimal places.



4. Find the surface area of the cylinders, to 2 decimal places:

