

1. Carry out the following calculations.

(a)  $9.32 - 5.6 + 4.27$

(b)  $37.6 \times 8$

(c)  $2680 \div 400$

(d)  $7 \times 2\frac{1}{3}$

Marks

	KU	RE
1		
1		
1		
2		

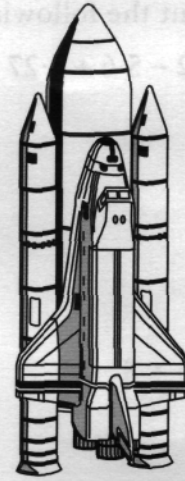
[Turn over

Marks

KU RE

2. The space shuttle programme costs \$5800 million.

Write this number in scientific notation.



2

3. One day last February, Anna compared the temperature in Edinburgh with the temperature in Montreal.

The temperature in Edinburgh was  $8^{\circ}\text{C}$ .

The temperature in Montreal was  $-15^{\circ}\text{C}$ .

Find the difference between these temperatures.



2



Marks

KU	RE

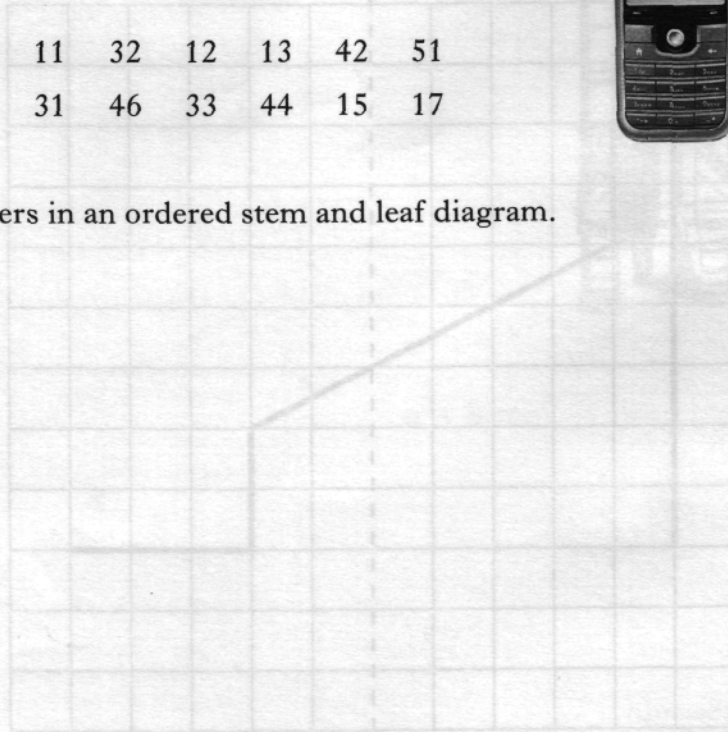
5. Karen asked her class to note the number of songs they downloaded to their phones in the last month.

The answers are shown below.

14 16 15 26 11 32 12 13 42 51  
27 21 14 17 31 46 33 44 15 17



Display these answers in an ordered stem and leaf diagram.



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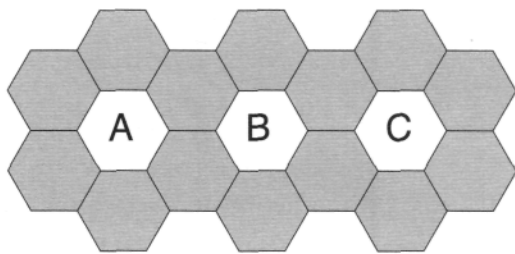
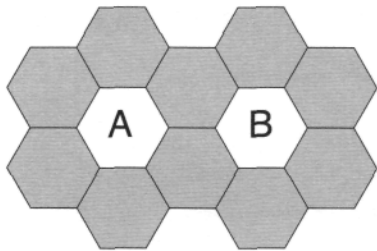
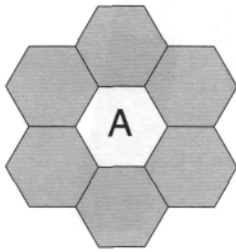
Find the difference between these temperatures.

3

Marks

KU	RE

6. Carla is laying a path in a nursery school.  
She is using a mixture of alphabet tiles and coloured tiles.



(a) Complete the table below.

Number of alphabet tiles ( $a$ )	1	2	3	4	5		12
Number of coloured tiles ( $c$ )	6	10					

2

(b) Write down a formula for calculating the number of coloured tiles ( $c$ ) when you know the number of alphabet tiles ( $a$ ).

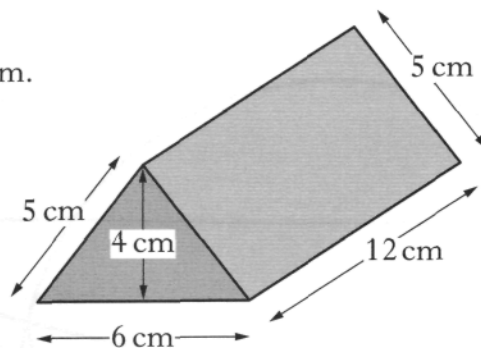
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(c) Carla uses 86 coloured tiles to make the path.  
How many alphabet tiles will be in the path?

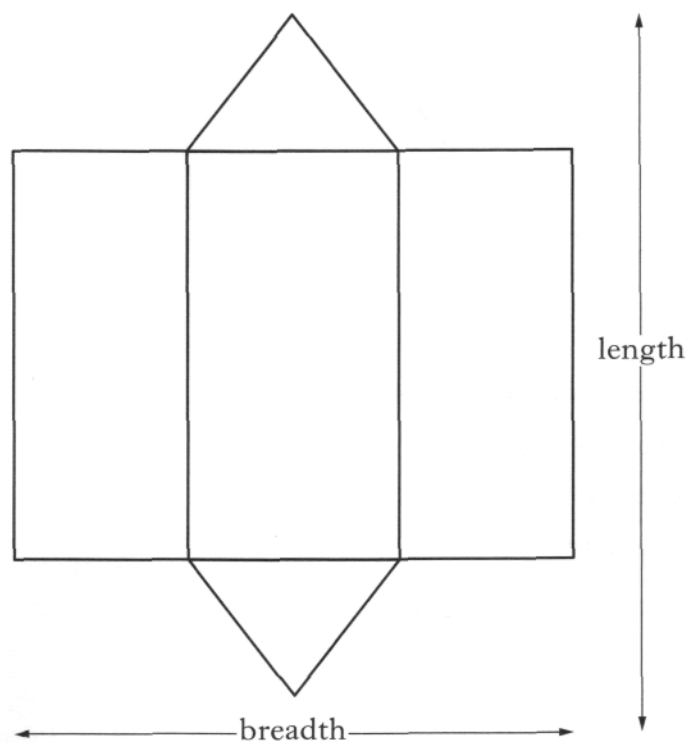
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9. The diagram shows a triangular prism.  
The dimensions are given on the diagram.



A **net** of this triangular prism is shown below.



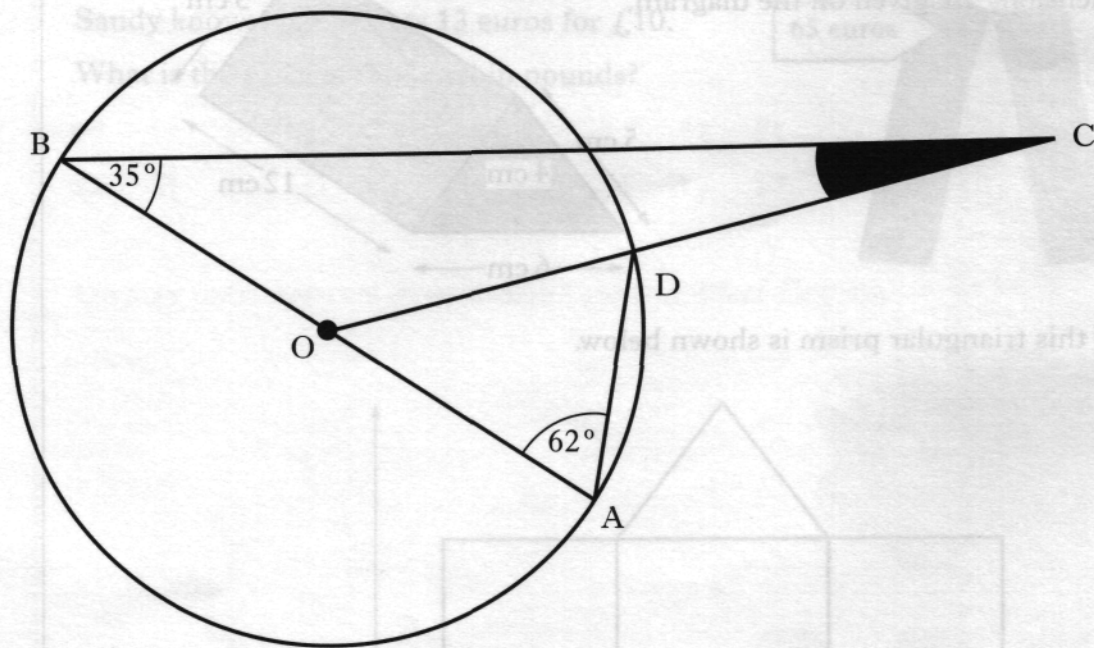
Calculate the length and breadth of this net.

<i>Marks</i>		
	KU	RE
2		

Marks

KU RE

10.



In the diagram above:

- $AB$  is a diameter of the circle with centre  $O$
- $OC$  intersects the circle at  $D$
- $\text{Angle } ABC = 35^\circ$
- $\text{Angle } BAD = 62^\circ$

Calculate the size of the shaded angle.

3

[END OF QUESTION PAPER]