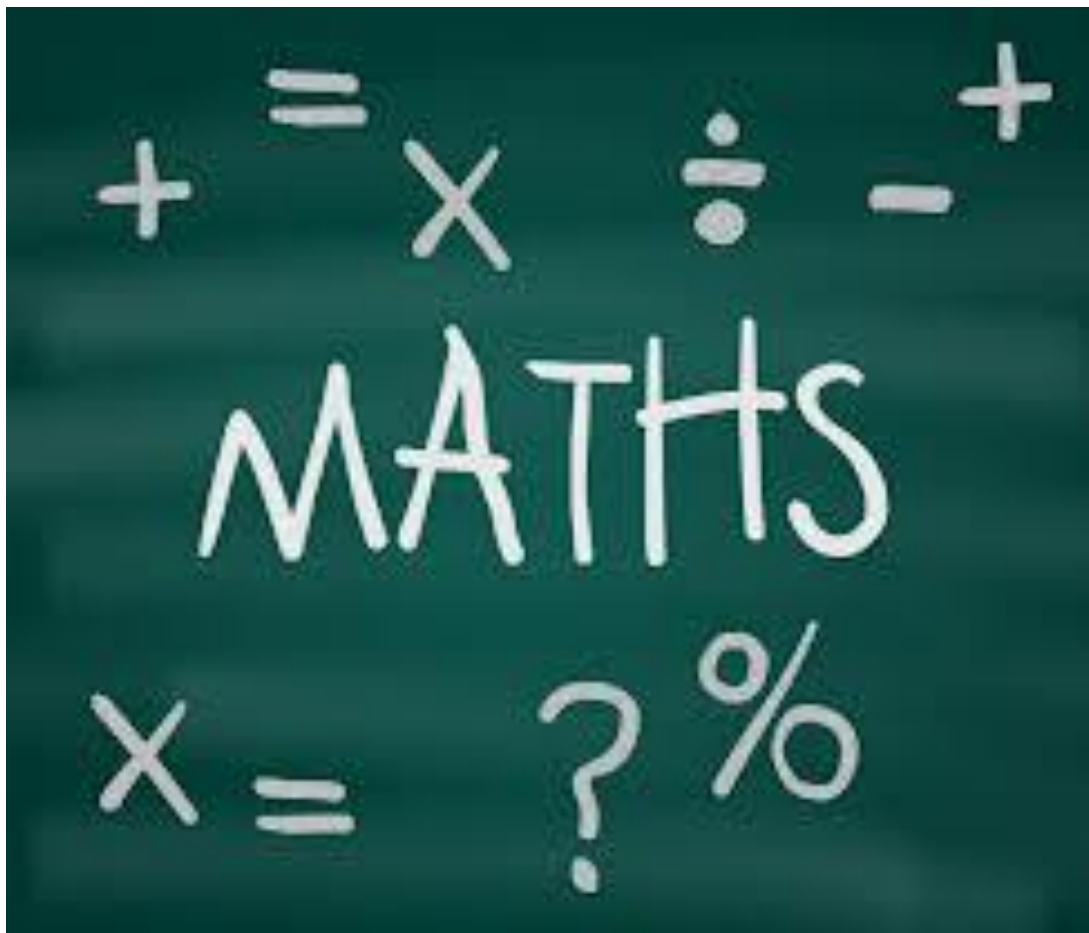


# Year 5 Maths Homework

- Term 5 -



<b>Homework Task</b>	<b>Date due</b>	<b>Parent/Carer Comment</b>
Number Facts	30/04	
Calculations	07/05	
Area	14/05	
Angles	21/05	

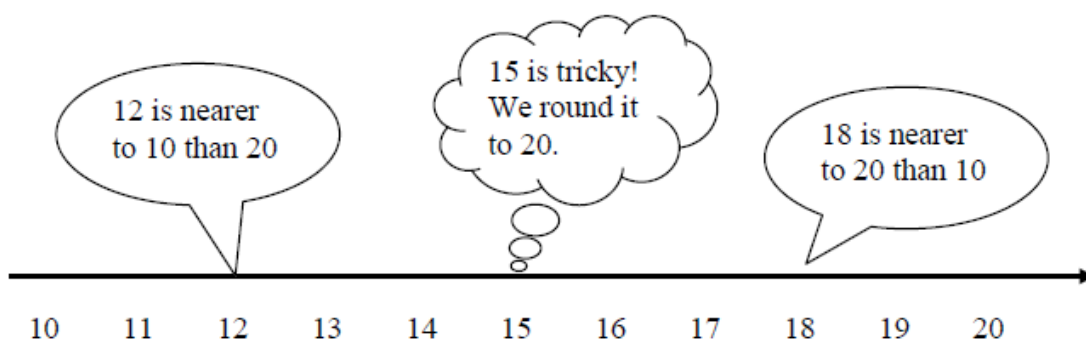
## Homework 1 - Number Facts

### LEARN

#### Level 4

Round a whole number to the nearest 10 or 100.

The number line below shows what we do when we round to the nearest 10.

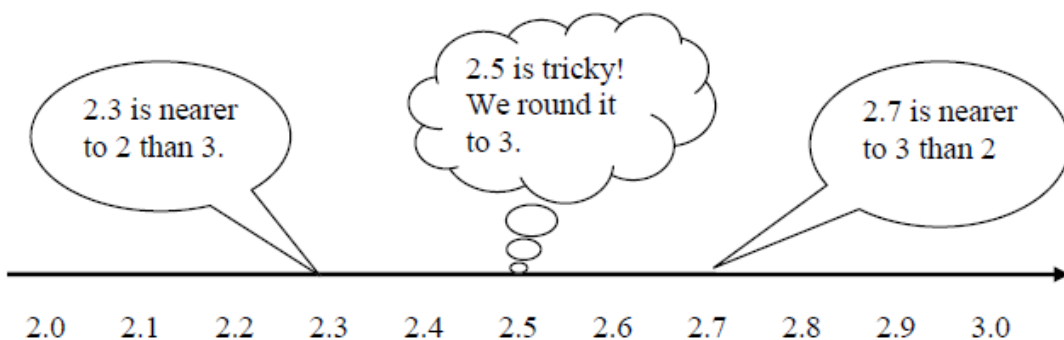


We use the same idea when rounding to the nearest 100.

(Imagine all the numbers in the line above with a 0 on the end if it helps!)

#### Level 5

Round to nearest whole number with 1 decimal place (ie one digit after the decimal point.)



## Level 6

£5.51 to the nearest pound is £6

Remember that less than £5.50 would round down to £5, and that £5.50 and above round up to £6.

## DO

### Level 4

Round the following numbers to the nearest 10:

56 ..... 23 .....

87 ..... 45 .....

172 ..... 286 .....

496 ..... 1099 .....

Round the following numbers to the nearest 100:

156 ..... 323 .....

587 ..... 245 .....

172 ..... 1286 .....

5496 ..... 1099 .....

### Worded problems

1. There are 27 birds' nests in a hedge. How many is this to the nearest 10?

.....

2. Sally says that there are 500 folders in a filing cabinet to the nearest 100. Write down the most folders that could be in the filing cabinet.

.....

### Level 5

Round the following to the nearest whole number and to 1 decimal place.

	Whole number	1 dp
37.42	.....	.....
12.05	.....	.....
84.396	.....	.....
21.258	.....	.....
248.019	.....	.....
34.895	.....	.....

Worded Problems

1. A football pitch is 94.5 metres long and 54.3 metres wide. What are these dimensions to the nearest metre?

.....

2. A garden is 140 feet long to the nearest foot. What is the shortest length it could be?

.....

Level 6

Round the following to 2 and 3 decimal places

	2 dp	3 dp
37.4275	.....	.....
12.05062	.....	.....
84.3969	.....	.....
21.25843	.....	.....
248.0118	.....	.....
34.89959	.....	.....

## Worded problems

1. Holly buys three items costing £1.35, £5.47 and £6.99. She calculates the price then rounds to the nearest pound. How much change, to the nearest pound, will she get from a £20 note?

.....

.....

.....

2. If Holly rounds the original prices to the nearest pound and calculates the change. Why are the answers different?

.....

.....

.....

## Homework 2 - Calculations

### LEARN

$$217 \times 1000 = 217000$$

### DO

Ask someone to read the following questions to you. They should read each question twice. Leave about 10 seconds between each question. Write your answers down. When you have finished check them with the answers at the end of week 4 questions. Write down how many you got right.

#### Set A (Level 4-5)

1. Bars of soap are packed in boxes of 6. How many boxes are needed for 30 bars of soap? .....
2. Use the 24 hour clock to write quarter past eight in the evening. ....
3. How many lines of symmetry does a square have? .....
4. What is 56 divided by 7? .....
5. Multiply 37 by 10. ....
6. 80 centimetres of ribbon is cut into 4 equal pieces. How long is each piece? .....
7. What is half of 48? .....
8. A rectangle has length 5 metres and width 9 metres. What is its perimeter? .....
9. Six friends share 44 sweets equally. How many are left over? .....
10. Add together 25, 13 and 47. ....

My score was .....



Set B (Level 5-6)

1. Which is colder  $-1^{\circ}\text{C}$  or  $-7^{\circ}\text{C}$ ? .....
2. Dave spends £2.80. How much change does he receive from £5? .....
3. Find  $\frac{1}{4}$  of 36. ....
4. What is 37 divided by 10? .....
5. A rectangle has an area of 24 square metres. It is 3 metres wide. How long is the rectangle? .....
6. Write thirty two thousand, four hundred and six in figures. ....
7. 12, 23, 34, 45. What number is next in the pattern?  
.....
8. What is 10% of £350? .....
9. The area of a square is  $25\text{cm}^2$ . What is its perimeter?  
.....
10. First Class stamps cost 60p. How many can be bought for £4? .....

My score was .....

DO

**Level 4**

Complete the two tables:

Multiplication

	12	6	20	3	210
X10					
X100					

Division

	80	230	500	40	7400
÷10					
÷ 100					

## Level 5

Complete the table:

	X10	X100	X1000	÷10	÷100	÷1000
4200						
25000						
34						
756						
980						

### Level 6

Complete the table:

	X10	X100	X1000	÷10	÷100	÷1000
5.5						
13.45						
248.9						
603.07						
0.125						

## Homework 3 - Area

### LEARN

#### Level 4 and 5

Area of a rectangle = length x width

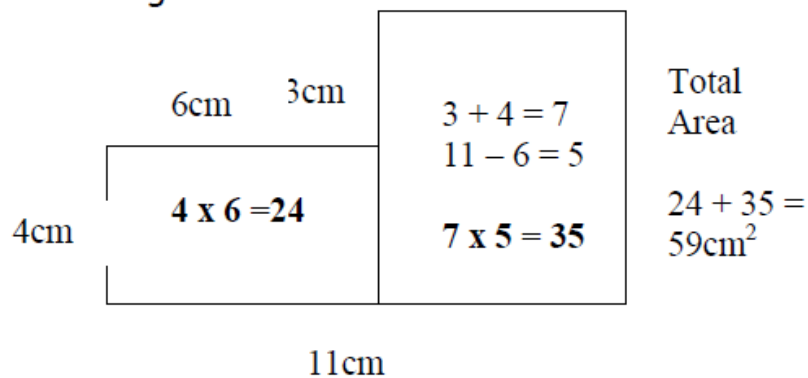
#### Level 6

Composite area.

Split the shape into rectangles.

Find the area of each rectangle.

Add the values together.

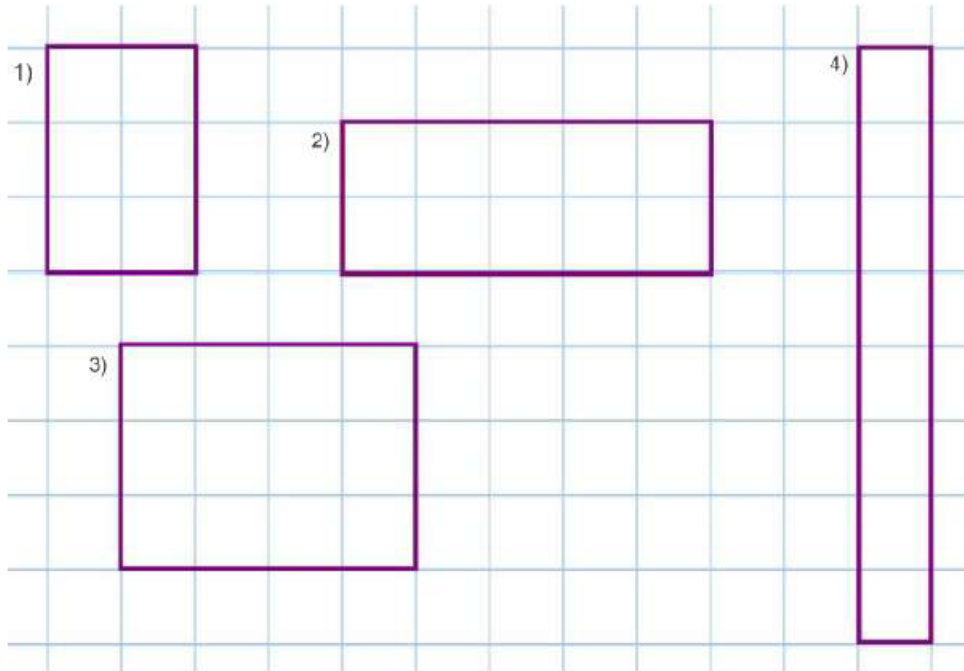


DO

**Level 4**

The shapes below are drawn on 1cm grids.

Find the area of each shape.



1.) .....  $\text{cm}^2$

2.) .....  $\text{cm}^2$

3.) .....  $\text{cm}^2$

4.) .....  $\text{cm}^2$

On the grid below draw shapes with the following areas

a)  $10 \text{ units}^2$

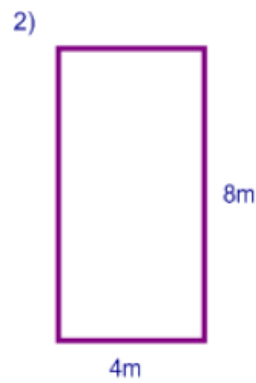
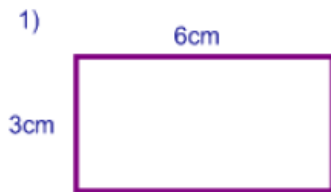
b)  $8 \text{ units}^2$

c)  $6 \text{ units}^2$



## Level 5

Find the area of the shapes below:



Remember to use the correct units!  
You **MUST** show your **WORKING OUT**.

1)

.....

2)

.....

3)

.....



A letter H is made for a sign. It is put together from the following pieces of wood.

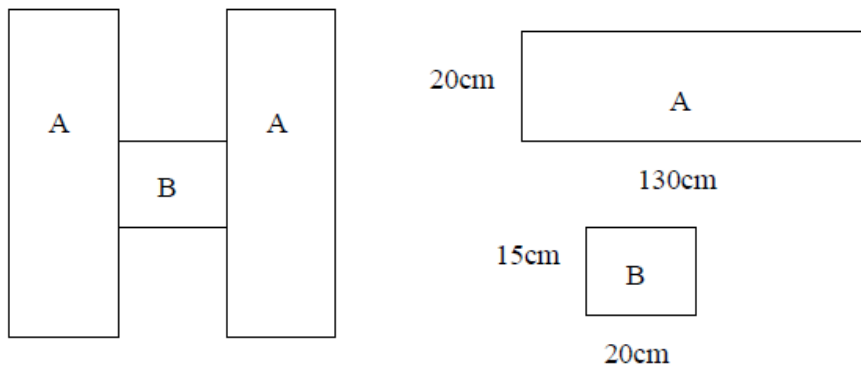
Two pieces of shape A, and one piece of shape B.

Find the area of shape A.

Find the area of shape B.

What is the area of the finished letter H?

Remember that you **MUST** show your **WORKING OUT!**



.....

.....

.....

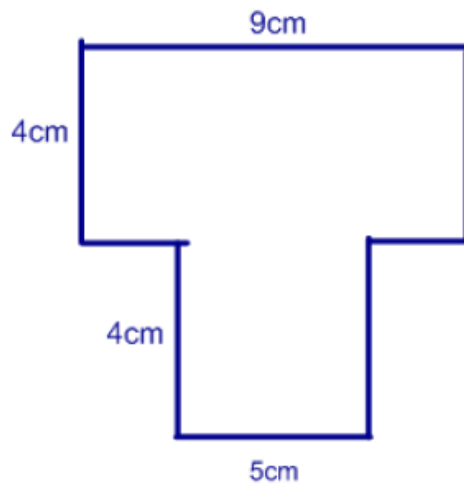
Complete the table below:

Area of Rectangle	Length	Width
$15 \text{ cm}^2$	5cm	
$24 \text{ cm}^2$		2cm
$42 \text{ cm}^2$	6cm	
$100 \text{ cm}^2$	20 cm	
$56 \text{ cm}^2$		4 cm

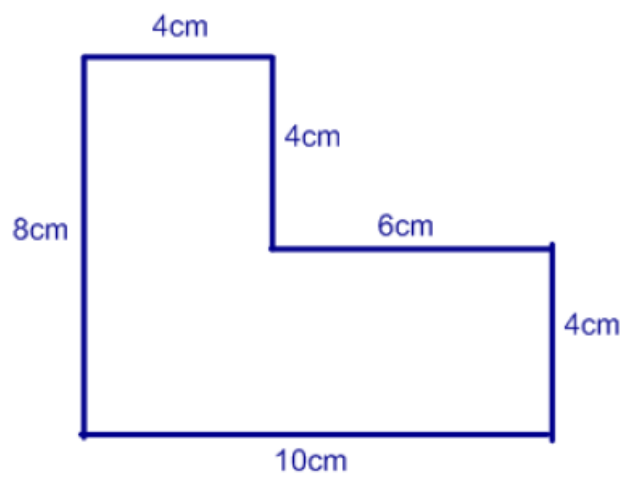
### Level 6

Work out the area of each of the shapes below:

1)



2)



## Homework 4 - Angles

### LEARN

Learn the spellings and definitions of the following keywords.

Acute

An ACUTE angle is less than  $90^\circ$ . It is smaller than a right angle.

Obtuse

An OBTUSE angle is more than  $90^\circ$ , but less than  $180^\circ$ . It is bigger than a right angle and never reaches a straight line.

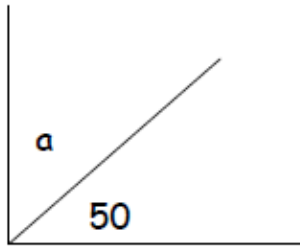
Reflex

A REFLEX angle is more than  $180^\circ$ , and smaller than  $360^\circ$ . It is bigger than half a turn and smaller than a full turn.

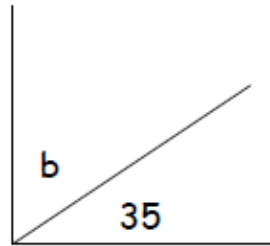
DO

Level 4

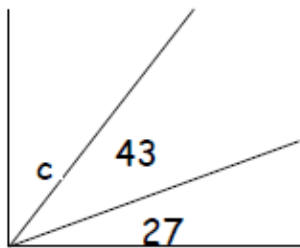
The diagrams below are all RIGHT ANGLES. Calculate the missing angles, a, b, c, d, e and f.



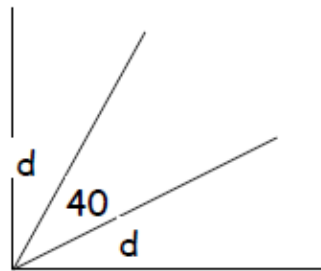
a = .....



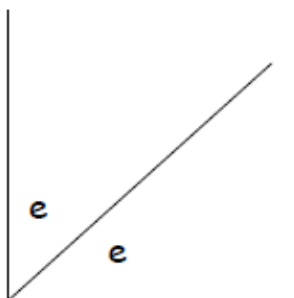
b = .....



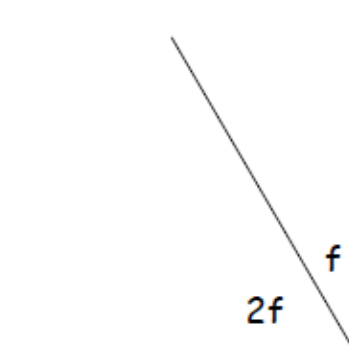
c = .....



d = .....

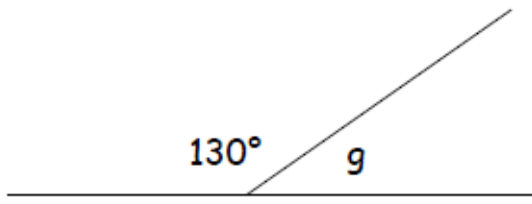


e = .....

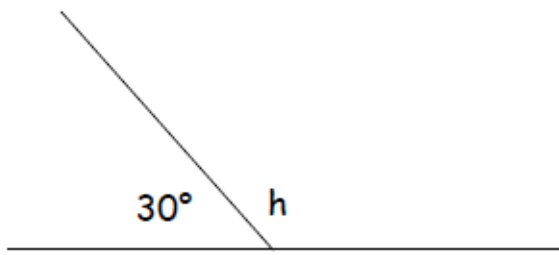


f = .....

Find the missing angles on the straight lines below.



.....  
.....  
 $g =$  .....

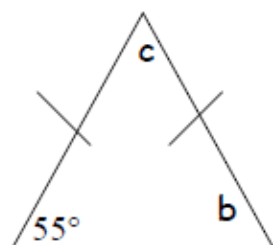


.....  
.....  
 $h =$  .....

## Level 5

Find the missing angles in the diagrams below.

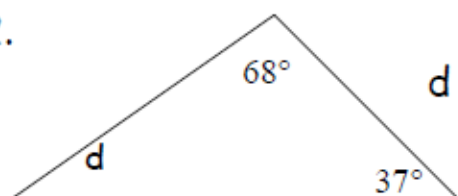
1.



$$b = \dots\dots\dots$$

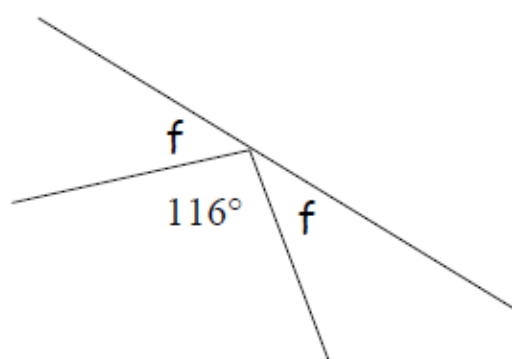
$$c = \dots\dots\dots$$

2.



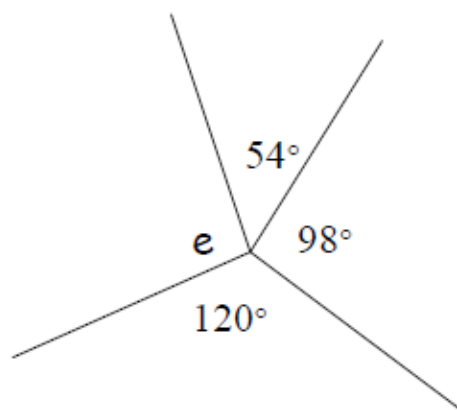
$$d = \dots\dots\dots$$

4.



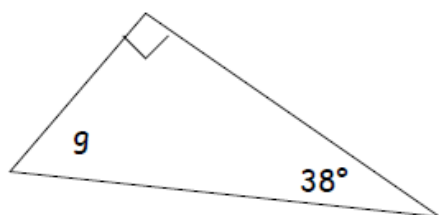
$$f = \dots\dots\dots$$

3.



$$e = \dots\dots\dots$$

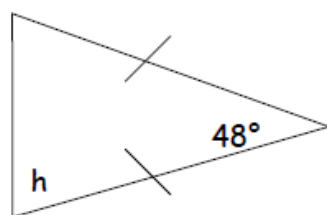
5.



.....

.....

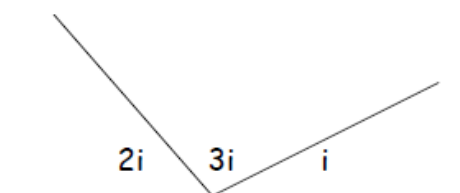
$g =$  .....



.....

.....

$h =$  .....



.....

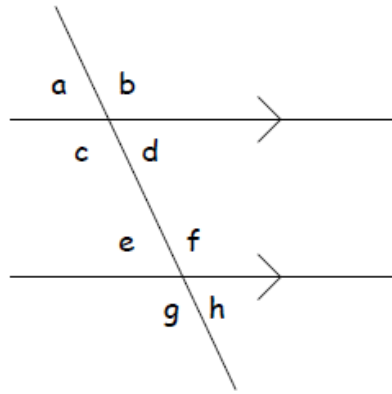
.....

$i =$  .....



## Level 6

Complete the sentences below using the diagram and keywords given.



Corresponding

Vertically Opposite

Allied

Alternate

Angles a and d are equal because they are ..... angles.

Angles a and e are equal because they are ..... angles.

Angles c and f are equal because they are ..... angles.

Angles f and g are equal because they are ..... angles.

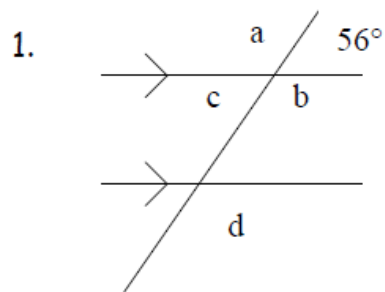
Angles b and f are equal because they are ..... angles.

Complete the sentence below;

Angles ..... and ..... are allied angles because.....

.....

Calculate the missing angles. Give a reason for your answer.



a = .....

Reason .....

b = .....

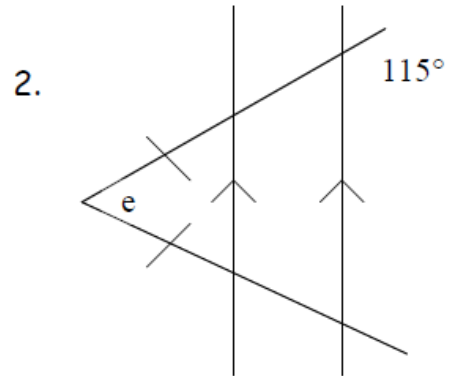
Reason .....

c = .....

Reason .....

d = .....

Reason .....



e = .....

Reason.....

Answers for Set A and Set B questions.

Question	Set A	Set B
1	5	-7°C
2	2015	£2.20
3	4	9
4	8	3.7
5	370	8m
6	20cm	32406
7	24	56
8	28m	£35
9	2	20cm
10	85	6