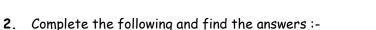


- 1. Order each list of numbers, smallest first :
  - **d** 5.3, 5.46, 5.03, 5.1, 5.31, 5.18

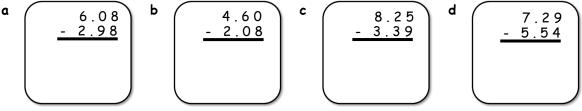
۵

e 9.4, 10.32, 10.06, 9.78, 9.14, 10.1, 10.77

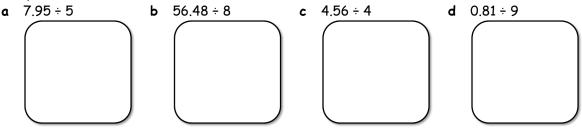


sinplete the following a			
$\begin{array}{c} 3 & 3 \\ + & 6 & 6 \\ \hline \end{array}$	2.84 + 7.16	c $4.15$ + 4.77	$d \qquad 3.06 \\ + 2.24 \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $

3. Complete the following and find the answers :-



- 4. Complete the calculations : a 31.57 × 8
   b 10.40 × 3
   c 223.5 × 7
   d 316.24 × 6
- 5. Complete each calculation :-

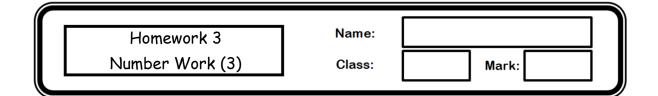


Homework 2	Name:		
Number Work (2)	Class:	Mark:	

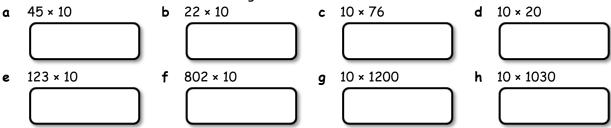
- a Jasmine walked 23.45 kilometres in 5 hours. How far had she walked, on average, each hour?
  - **b** A sign in a supermarket claimed that no more than **one seventh** of their mince was fat.

If a packet of mince weighted 2.52 kg, how much of it, at most, should be fat?

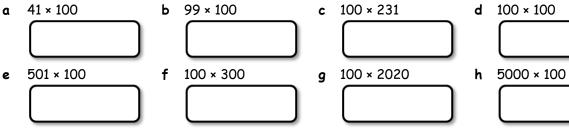
- 2. a A Stevie the snail covered 9.13 metres in one hour.At this speed, how far will Stevie travel in 6 hours?
  - b During a storm, 3.45 centimetres of rain fell every hour.What depth of rain fell during the 6 hours the storm lasted?



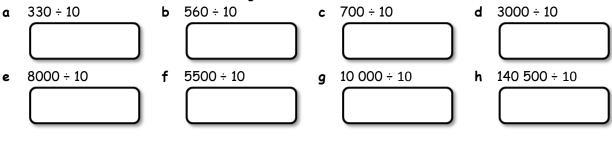
1. Write down the answers to the following :-



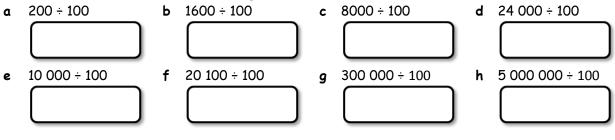
2. Write down the answers to the following :-

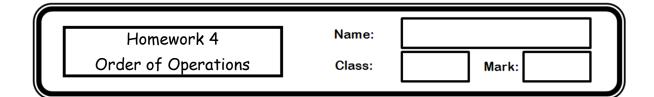


3. Write down the answers to the following :-

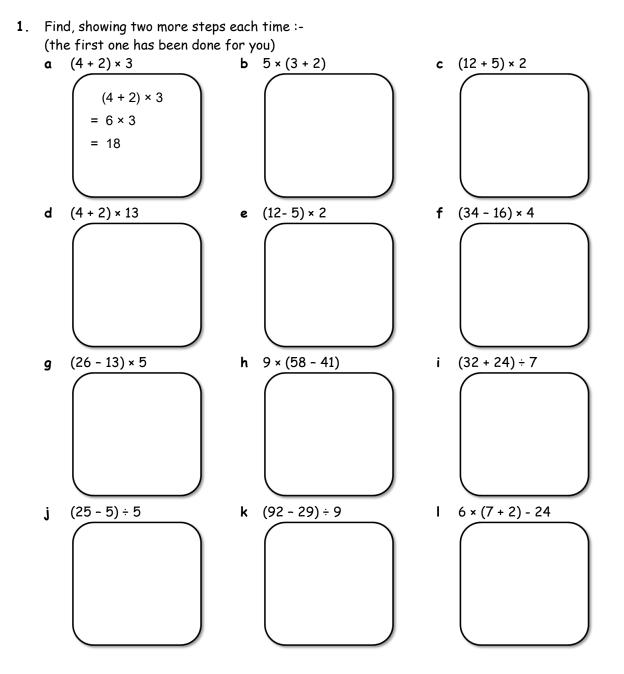


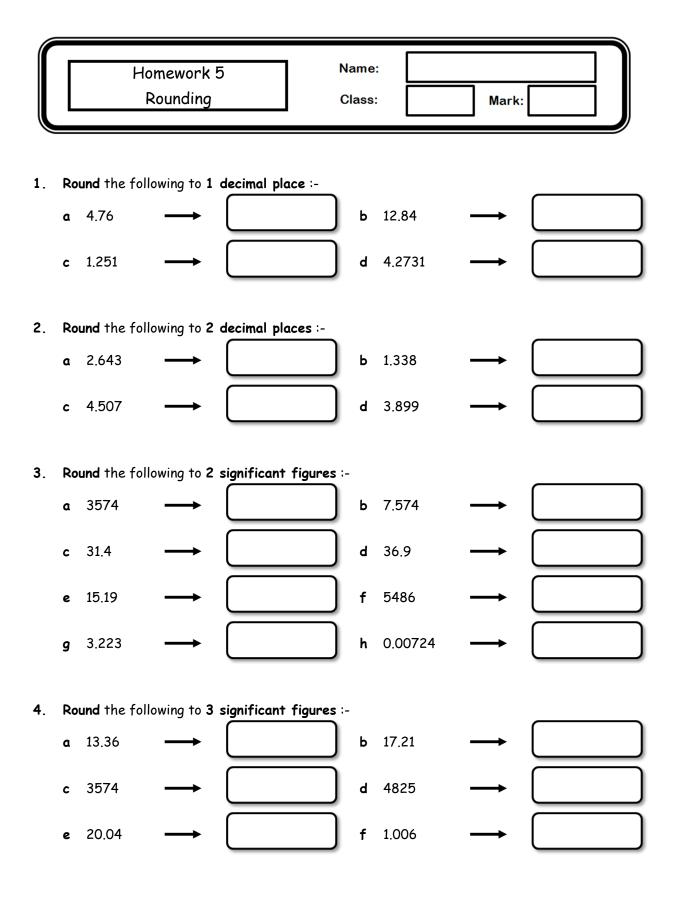
4. Write down the answers to the following :-





## REMEMBER: BRACKETS first - MULTIPLY OR DIVIDE next - ADD OR SUBTRACT last





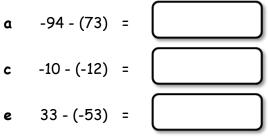
-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7			rk:	Ма				ame: lass:					ork ( Numb		Hor egati	Ne		
	89	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9

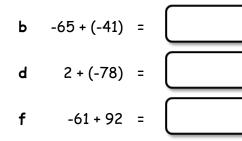
Con	npiete the t	01101	wing calculations :-
۵	-6 - 0	=	
с	2 - (-6)	=	
e	9 - (-6)	=	
g	7 - (-3)	=	
i	-6 + (- 8)	=	
k	0 + (-2)	=	
m	-4 + (-8)	=	
0	-5 - (-8)	=	
q	9 - (-2)	=	
S	15 + (-6)	=	

1. Complete the following calculo	ations	:-
-----------------------------------	--------	----

Ь	-7 - 8	=	
d	-8 - (-8)	=	
f	-2 - (-6)	=	
h	-9 - (-9)	=	
j	-3 - (-7)	=	
I	-3 + 6	=	
n	3 - (-1)	=	
P	3 - (-5)	=	
r	-4 + (-12)	=	
t	-30 - 4	=	

2. Complete the following calculations :-

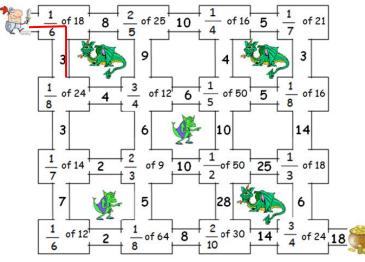




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Homework 7	Name:		
Fractions	Class:	Mark:	
	L		

- 2. Kevin had £8, John had £5 and Tina had £7.
  - a What total amount of money did they have altogether?
  - **b** What fraction of the total did Tina have?
  - c What simplified fraction did John have?
- 3. Help the Knight combat the dragons and trolls and get to the gold!

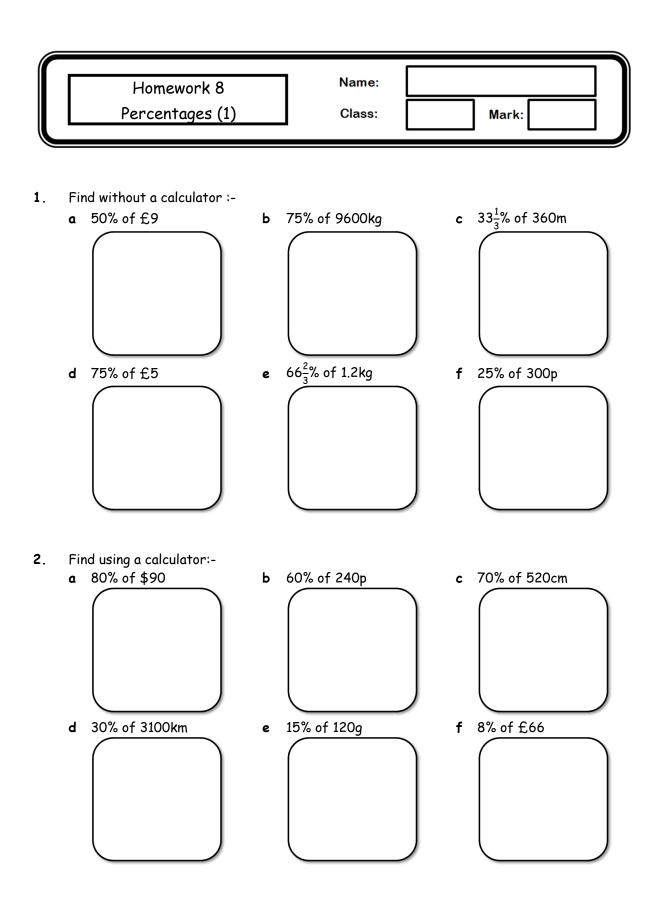
Work out what the fraction of each amount is and follow the correct path through the maze.



SHOW ALL WORKING BELOW (The first one has been done for you.)

Q1:  $- of 18 = 18 \div 6 = 3$ 

(	



Homework 9	Name:	
Percentages (2)	Class:	Mark:

1. Eighty percent of the 560 DVDs in a shop are rated 15.

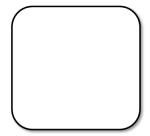
How many DVDs are rated 15?

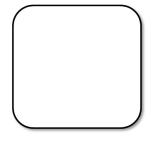
2. On holiday, Calvin spent 75% of his £450 spending money.

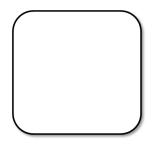
How much money did Calvin spend?

3. Margaret took  $\pm350$  on holiday and return with 15% of her money.

How much money did Margaret spend on holiday?







Homework 10	Name:	
Percentages (3)	Class:	Mark:

LOOK AT THE FOLLOWING EXAMPLE TO HELP YOU CONVERT A FRACTION TO A PERCENTAGE :-

To change  $\frac{1}{2}$  to a percentage, type the following into your calculator:

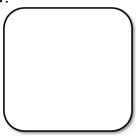


1. Use a calculator where necessary and change each fraction to a percentage :-



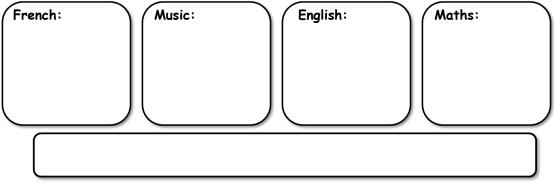
 Andrew sat a Maths test which comprised of twenty questions each worth two marks. Andrew scored 32 marks. Write his test score as a percentage.

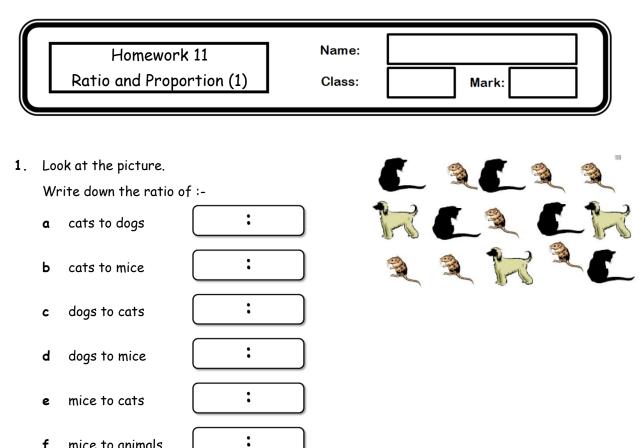
HINT: Work out how many marks the test was worth in total first.



**3**. Patel scored  $\frac{32}{50}$  for French,  $\frac{45}{72}$  for Music,  $\frac{18}{25}$  for English and  $\frac{22}{30}$  for Maths.

Convert each of Patel's scores to percentages and list his scores in order from best to worst.





f mice to animals

2. From the picture, write in simplest form the ratio of :-

:

:

:

:

:

:

:

- oranges to pears ۵
- bananas to pears Ь
- pears to bananas С
- d pears to oranges
- bananas to fruit e
- 3. Look at the picture opposite and write down the ratio of :
  - spoons : forks ۵
- :
- Ь forks : knives
- С knives : spoons

3



Class:

Name:

Mark:

1. On a bus the ratio of men to women is 1:3.

If there are 8 men on the bus, how many women are there?

HINT: Use the table opposite to help you.

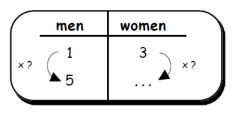
2. At a school disco, the ratio of cans of Cola to cans of Orange sold was 5 : 2.

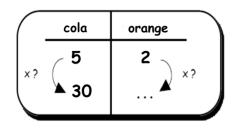
There were 30 cans of Cola sold.

Find out how many cans or Orange were sold.

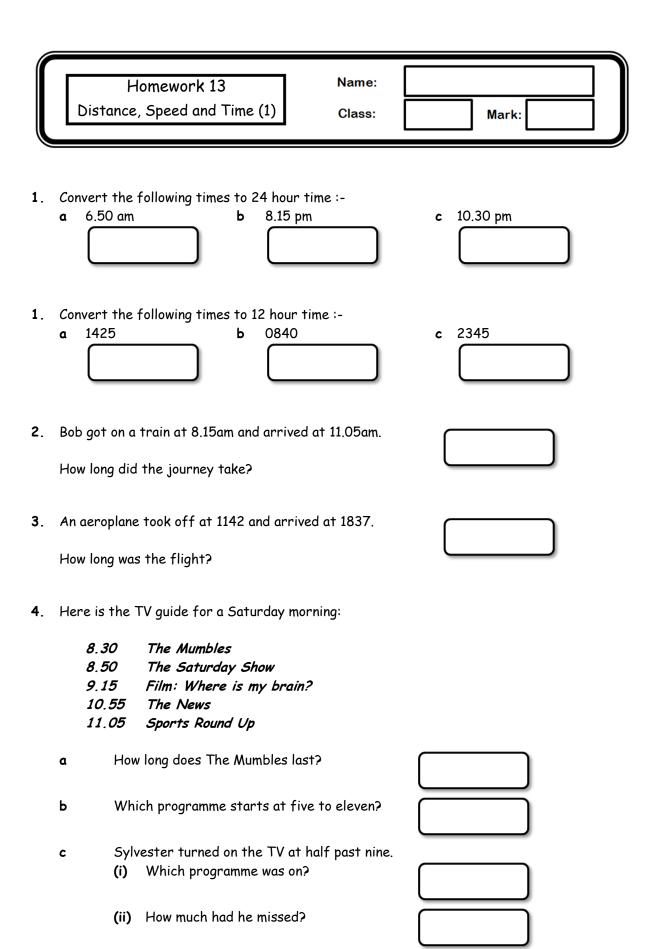
**3**. In a box of chocolates, the ratio of raspberry to vanilla flavours is 3 : 2.

If there are 12 raspberry flavoured chocolates in the box, how many vanilla flavoured chocolates are there?





$\bigcap$	raspberry	vanilla	
	3	2	
x?	<b>1</b> 2	🔺 ×?	

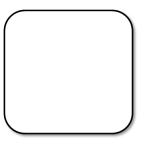


d How long does The Saturday Show last?

Homework 14	Name:		
Distance, Speed and Time (2)	Class:	Mark:	

A girl cycles for 3 hours at a speed of 40 km/h.

What distance did she travel?



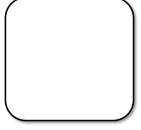
2. Jim travelled at a speed of 18 km/h for 2 hours.

What was the distance covered?

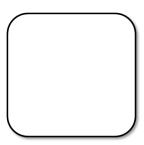


3. A whale swims at a constant speed of 8 m/s for 17s.

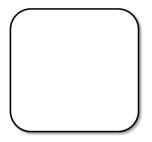
What distance did it travel?



4. What distance did a train cover when it travelled at 80 mph for 1 hour and 30 minutes hours?

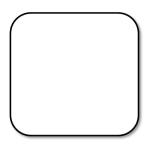


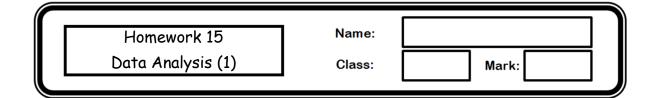
5. If I went for a  $2\frac{1}{2}$  hour walk at an average speed of 5mph, how far did I walk?



6. A racing car travelled at an average speed of 160 km/h for 45 minutes ( $\frac{3}{4}$  hour).

How far did it travel?





36

32-

28-24-

20-

Mon Tue Wed Thu Fri

Day

Sat Sun

Number sold

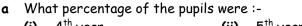
- 1. The line graph shows the sales of Tony's ice-cream one week in July.
  - a How many ice-cream's did Tony sell on
    (i) Monday (ii) Friday

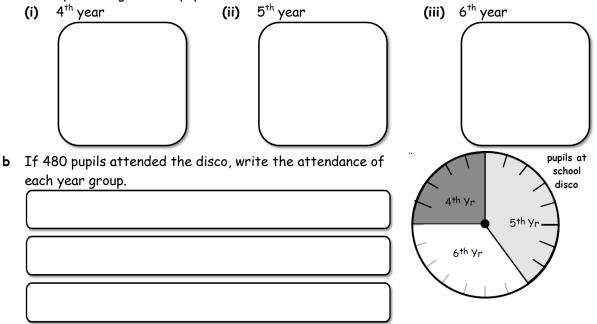
(iii) Saturday (iv) Sunday

**b** Tony was ill one day and could not drive his van to work.

What day was Tony ill?

- c What day do you think was the hottest day? Explain.
- d What was the total number of ice-creams sold that week?
- e What was the mean (average) number of ice-creams sold per day over the seven days?
- 2. The pie chart below shows this year's senior school disco attendance.

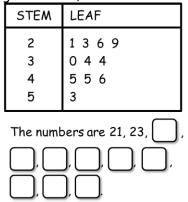




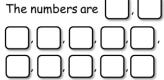
$\frown$			
	Homework 16	Name:	
	Data Analysis (2)	Class:	Mark:

1. Using the boxes, read and list the values from the following stem and leaf diagrams :-

Ь



STEM	LEAF
0	268
1	3 4 5 8
2	124
3	05
	$\square$



2. Put these numbers in the stem and leaf diagram.

72, 45, 55, 71, 40, 59, 65, 43, 79, 47, 57

Rough Version

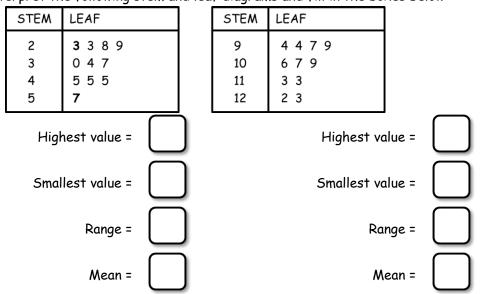
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STEM	LEAF
4	
5	
6	
7	2

Neat Ver	sion
STEM	LEAF
4	
5	
6	
7	

HINT: for the neat version, make sure leaves are in order from smallest to biggest and written in columns

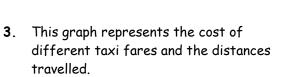
3. Interpret the following stem and leaf diagrams and fill in the boxes below :-



$( \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$				
	Homework 17	Name:		
	Data Analysis (3)	Class:	Mark:	

- 1. This scatter graph below shows the ages and weights of several children.
  - a Who is :- (i) the youngest
    - (ii) the lightest
    - (iii) the oldest
    - (iv) the heaviest child
  - **b** Write down the age and weight of each child in the space below :-

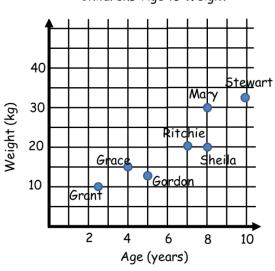
Name	Age	Weight
Grant		
Grace		
Gordon		
Ritchie		
Sheila		
Mary		
Stewart		

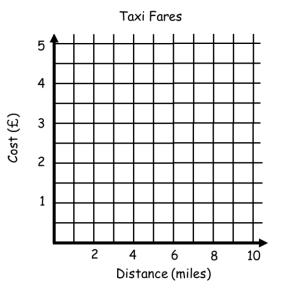


**a** Use the table below to plot the points on the graph.

Distance	Cost
2	1.50
3	2.50
2	1.75
5	3.25
5	3.50
6	4.00

**b** Estimate how much a 4 mile journey would cost.





Childrens' Age vs Weight

Homework 18		
Data Analysis (4)		

Name:

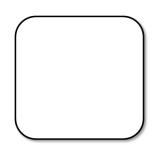
Calculate the mean age.

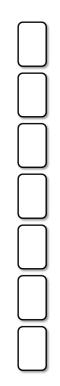
2. The test results for a group of pupils are shown below.

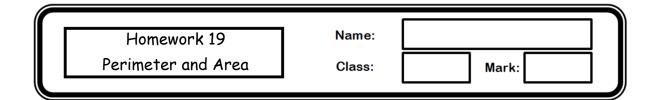
35, 27, 48, 27, 13, 36

Calculate the mean score.

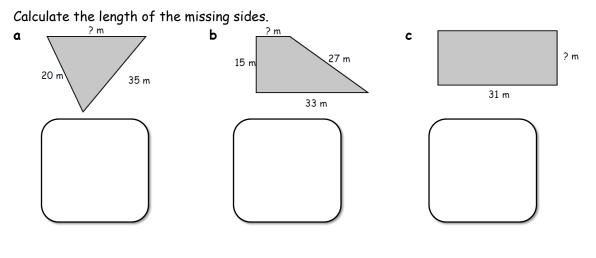
- Write down the probability of each of the following event : a Selecting the letter S from the word SKILL
  - **b** Picking a red pencil from a pencil case containing four red pencils and five blue pencils
  - c Throwing a score of six with a dice
  - d Picking an odd number from 12, 13, 14, 15, 16, 18, 19, 20
  - e Throwing an odd number with a dice
  - **f** Picking a month that starts with the letter J from a list of months of the year
  - g Throwing a score of less than 3 with a dice







1. Each of these shapes has a perimeter of 80 metres.

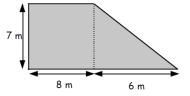


**3**. A field with perimeter 750 metres is in the shape of a regular pentagon.

The farmer needs to replace two sides of the field with fencing costing  $\pm 20$  a metre.

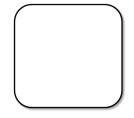
How much will the farmer have to pay?

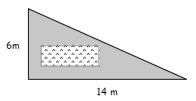
3. Calculate the total area of the composite shape shown :-



**3**. A triangular garden which is to be turfed has a rectangular flower bed (area  $16 \text{ m}^2$ ).

Find the (shaded) area of the garden to be turfed.





Name:

If the distance between a door and a wall is 4cm on this plan, find the real distance from door to wall.

2. On a plan of scale 1cm to 8m, the front of a house measures 7cm.

Find the true length of the front of the house.

**3**. The distance from Ayburgh to Groaton is 10cm on a map.

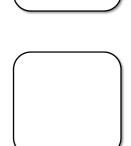
If the scale of the map is 1 cm to 2km, find the real distance between these two towns.

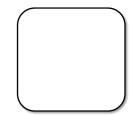
4. The distance from an airport to a harbour is 3cm.

Find the real distance between the airport and harbour if the scale of the map is 1cm to 2km.

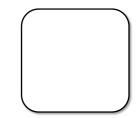
5. On a plan the height of a tower is 8cm.

If the scale is 1cm to 2.5m, find the real height of the tower.





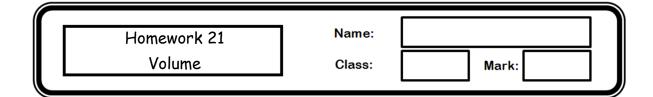




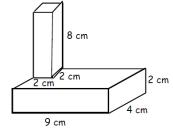




Mark:



1. Find the total volume of the following shapes :-



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