RIGOUR

by cdmasterworks Ltd

Numeracy for Learning, Life and Work

January CfE 4th Level Calendar

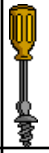
#abitofmathseveryday

1 Solve the following equation...

$3x - 12 = 8 - 2x$

2 This £40 shirt has 15% off in the January sales. How much does it now cost?

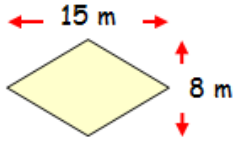
3 Screws are manufactured that must have a tolerance of $(20 \pm 1{\cdot}5)$ mm. What are the minimum and maximum lengths of screws that are acceptable?



4 Jay cycled 11·4 miles in 1 hr 12 mins.

What was his average speed?

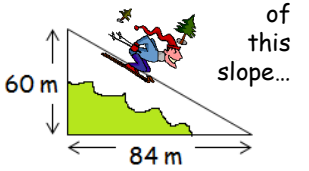
5 Calculate the area of this rhombus...



6 Calculate

$\sqrt{64} + (3 + 4)^2$

7 Calculate the gradient of this slope...



8 Calculate the median of the following data set...

5, -2, 7, -8, 3

9 Calculate

$3\frac{3}{5} + 4\frac{1}{2}$

10 Calculate

205×317

11 Multiply out the following brackets and simplify...

$7(x + 3) - 2(3x - 5)$

12 Calculate the interior and exterior angles of this regular hexagon...

13 Carrie scored 68 out of 110 in her maths test and 49 out of 85 in her english exam. Which subject did she perform better in? Give a reason for your answer!

14 Write

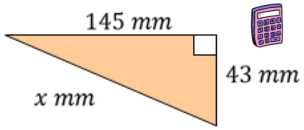
$1 \cdot 4 \times 10^{-3}$

in number form.

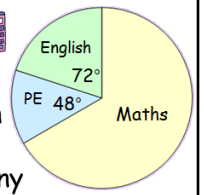
15 Factorise the following expression...

$10k - 45$

16 Calculate the length of the missing side. Round your answer to 1 d.p.



17 420 children asked. How many preferred maths?

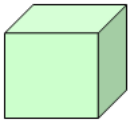


18

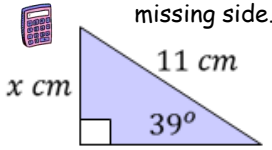
inch	2·54 cm
foot	30·48 cm

A basketball player is 6 ft 9 in tall. How tall is he in metres?

19 Calculate the surface area of this cube...



20 Calculate the length of the missing side...



21 It takes 2 men 9 hours to dig a hole. How long will it take 6 men at this rate?

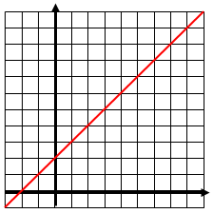
22 Allan weighed 83 kg. As part of his new year's resolution he lost 0·32 kg followed by a further 1·098 kg. What does he now weigh?

23 How many 150 ml cups of water can be filled from a 4 litre water container?

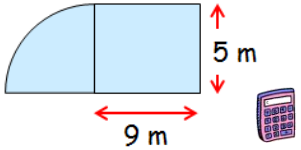
24 Find the 'nth' term for the following sequence and hence find the 10th term;

11, 6, 1, ...

25 Write the equation of the straight line



26 Calculate the area of this shape...



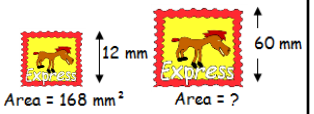
27 5 babies at a toddlers group have a mean age of 9 months. The ages of the first 4 babies were 5, 7, 10 and 12 months. What was the age of the fifth baby?

28 Last year, Bill's income was £23 800. This year his income increased to £25 942. Calculate this increase as a percentage of last year's income.

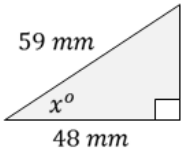
29 Calculate

$1196 \div 23$

30 The following stamps are mathematically similar. Calculate the missing area...



31 Calculate the size of the missing angle...



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					1
2	3	4	5	6	7
8	9	10	11	12	13
14	15	16	17	18	19
20	21	22	23	24	25
26	27	28	29	30	31