RIGOUR

by cdmasterworks Ltd

Numeracy for Learning, Life and Work

September CfE 4th Level Calendar

#abitofmathseveryday

1 Calculate

234×17

2 Evaluate

$6^2 \div \sqrt{(9 - 5)}$

3 Write 4 302 000 in scientific notation.

4 Increase 180 grams by 25%

5 Express $\frac{4}{9}$ as a decimal

6 Calculate the median of the following data set…

9, 4, 8, 1, 3, 9

7 Factorise the following expression…

$9x - 12$

8 The mean cost of two computers is £459. One computer costs £295. What is the cost of the other computer?

9 John is running a half marathon for charity, a distance of 13 miles. He managed to run 3·25 miles before he walked a further 7·235 miles. How much further does he still have to run?

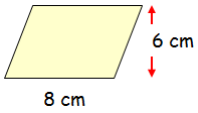
10 Share 480 in the ratio 1 : 2 : 3.

11 Multiply out the following bracket and simplify…

$6 - 2(x - 4)$

12 How long did a police car take to travel 33 miles at an average speed of 90 m.p.h?

13 Calculate the area of this parallelogram…



14 Solve the following equation…

$x + 2 = 9 - x$

15 Which is more likely?

- Picking a heart from a pack of playing cards
- Getting a score of less than 3 from rolling a dice.

16 Calculate

$8096 \div 368$

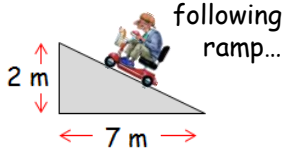
17 The legal temperature for working in an office must lie between 17°C and 23°C. Write this in tolerance form.

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

-3, 2, 7, …

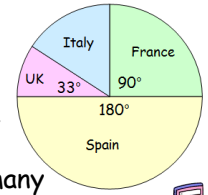
19 Organic bananas are sold in bags of 7. How many bags can be made from 304 bananas?

20 Calculate the gradient of the following ramp…

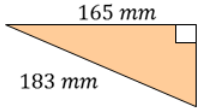


21 Julie scored 12 out of 35 in her chemistry test. Calculate her percentage.

22 840 people asked. How many preferred Italy?



23 Calculate the length of the missing side…



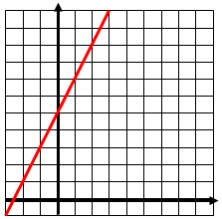
24 Solve the following inequality…

$7x - 5 > 9$

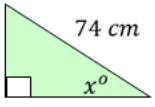
25 Calculate

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

26 Write the equation of the straight line



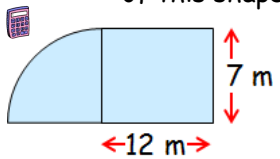
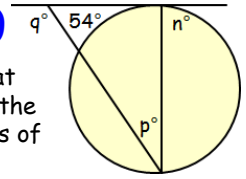
27 Calculate the size of the missing angle…



28 Evaluate

$8^2 \div \sqrt[8]{256}$

29 Calculate the area of this shape…



30 What are the sizes of the missing angles?