RIGOUR

by cdmasterworks Ltd

Numeracy for Learning, Life and Work

February CfE 3rd Level Calendar

#abitofmathseveryday

1 By first rounding to 1 figure of accuracy estimate

928×57

2 Solve the equation...

$7x + 8 = 71$

3 Calculate

$-11 - (-6)$

4 Write 0·46 as a fraction and a percentage.

5 Express 56 as a product of prime factors

6 Change $6\frac{1}{5}$ into a "top-heavy" fraction

7 Calculate

$\sqrt[3]{8}$

8 Select the prime number(s) from the following list...

60, 61, 63, 67, 68, 69

9 Calculate

0·57 - 4·8 + 9·064

10 If p = 8 and q = -6 calculate :-

$$\frac{4p + 2q}{5}$$

11 3 cyclists begin circuit training at the same time. Cyclist 1 takes 20 seconds to complete a lap, cyclist 2 takes 25 seconds and cyclist 3 takes 30 seconds. After how long will they all pass each other?

12 Calculate

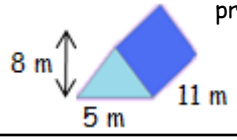
$48 \div 0{\cdot}8$

13 Simplify the following expression...

$5x^2 - 2x - 4x^2 + 9x$

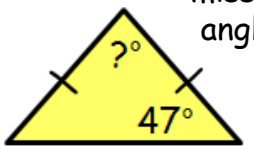
14 Dominic pays £60 for a Valentine's dinner. He tips the waiter 15% of the value of the bill. How much does he tip the waiter?

15 Calculate the volume of this triangular prism...



16 In a survey of 32 people, $\frac{3}{8}$'s of them preferred tea to coffee. How many of them preferred coffee?

17 Calculate the missing angle...

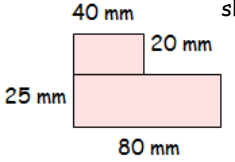


18 What is the Highest Common Factor of 12, 16 and 40?

19 Calculate

$$\frac{9}{10} - \frac{2}{7}$$

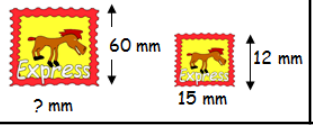
20 Calculate the area of this composite shape...



21 A £900 sofa can be bought by paying a 10% deposit plus 20 equal instalments. What is the value of each instalment?

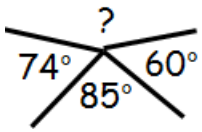
22 How far did a taxi drive in 30 mins at an average speed of 50 m.p.h.?

23 These two stamps are mathematically similar. Calculate the length of the missing side...



24 7 sandwiches coffees cost £12·95. How much for 9 sandwiches?

25 Calculate the missing angle...



26 A standard pack of playing cards has 52 cards. What is the probability of choosing an even number at random?

27 Write a rule and complete the table...

no. of circles (C)	1	2	3	11	?
no. of lines (L)	6	9	12	?	78

28 The current, I, is calculated using the formula;

$$I = \sqrt{\frac{P}{R}}$$

where P is the power and R is the resistance. Find the current, I, when there is a power of 80 and a resistance of 5.

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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	