RIGOUR
by cdmasterworks Ltd

Numeracy for Learning, Life and Work

3rd Level
Number and Number Process
MNU 3-03b

Bronze

Certificate | Exercises | Homework | Homework Answers
Lifeskills | Assessments | Assessment Answers

December CfE 4th Level Calendar

#abitofmathseveryday

1 Calculate

25×12

2 Calculate

$36 \div (2 + 1)^2$

3

inch	2·54 cm
foot	30·48 cm

A Christmas tree is 5 ft 10 in tall. How tall is this in metres?
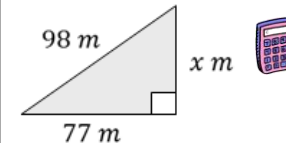
4 Calculate the median of the following data set…

8, -2, 6, -5, 0, -9

5 Write 2017 in scientific notation.
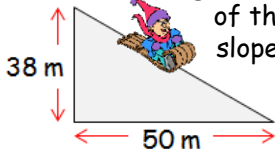
6 Calculate the length of the missing side…

98 m, 77 m, x m

7 Multiply out the following bracket and simplify…

$10 - 4(x + 2)$

8 Calculate the gradient of this slope…

38 m, 50 m

9 The weather forecast predicts a 6 in 40 chance of snow in December. It also predicts an 8 in 50 chance of snow in January. Is it more likely to snow in December or January? Give a reason your answer!

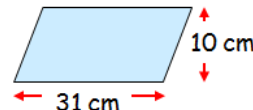**10** Santa flies 315 kilometres in 2 hrs 6 mins.

What is his average speed?

11 Calculate the area of this parallelogram…

10 cm, 31 cm

12 Express $\frac{7}{9}$ as a decimal

13 Grandpa Smith shared some pocket money between his three grandsons Max : Andrew : Freddie in the ratio 9 : 4 : 7. Andrew received £32. How much did Max and Freddie both receive?
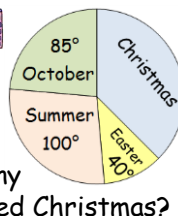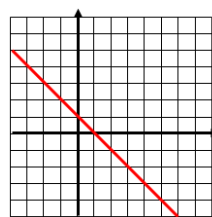
14 Solve the following equation…

$9x + 5 = x - 11$

15 600 children asked. How many preferred Christmas?

85° October, Summer 100°, Easter 40°, Christmas

16 Write the equation of the straight line
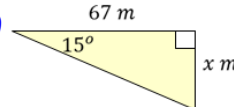
17 Factorise the following expression…

$8x - 12$

18 At a football game there were 40 000 supporters. 35 000 were supporting the home team. What percentage of the crowd were supporting the away team?

19 67 m, 15°, x m

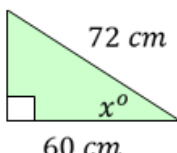Calculate the length of the missing side…

20 725 cans of fizzy juice are to be sold in containers which can hold 12 cans. How many containers are needed to hold all the cans of fizzy juice?

21 Calculate the size of the missing angle…

72 cm, 60 cm, $x°$

22 Calculate the interior and exterior angles of this regular decagon…

DECAGON

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

6, 10, 14, …

24 Calculate the amount of paper used to wrap this present in cm².

20 cm, 50 cm, 30 cm

25 A turkey weighs 15 pounds. Given that 1 pound = 453·59 grams, how many kilograms does the turkey weigh? Give your answer to 1 decimal place.

26 This £80 pair of trainers have 15% off in the Boxing Day sale. How much do they now cost?

27 Calculate

$3276 \div 14$

28 Cameron got £60 in Christmas money He spent £29·98 on a computer game and £12·70 on a new control pad. How much money does he have left over?

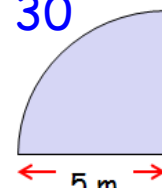**29** Calculate

$7\frac{1}{4} - 2\frac{3}{5}$

30 Calculate the perimeter of this shape…

5 m

31 When the Beatles scored their first number one single they had a mean age of 22. John was 23, Paul was 21 and George was 20. How old was Ringo?

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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	