RIGOUR
by cdmasterworks Ltd

Numeracy for Learning, Life and Work

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

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

December CfE 3rd Level Calendar

#abitofmathseveryday

1 Nathan opens a window on his advent calendar at random. The calendar is numbered 1-24. What is the probability that he will have opened a window that is a multiple of 5?

2 The perimeter of this shape is 133 cm. Calculate the length of the missing side…
45 cm 30 cm ? cm

3 Calculate -8 + (-4)

4 Lucky Todd got 32 presents! $\frac{3}{8}$'s of them were toys. How many of his presents were toys?

5 Calculate 0·25 - 1·2 + 2·017

6 Write 0·8 as a fraction and a percentage.

7 What is $\sqrt{900}$?

8 3 Christmas lights flash at the same time. Then the red light flashes every 2 seconds, the blue light every 3 seconds and the green light every 5 seconds. After How long will the lights flash at the same time again?

9 There are 2023 calories in seven mince pies. How many calories are in 9 mince pies?

10 Calculate the hire purchase price for a console which needs an £80 deposit and 12 payments of £30.

11 Change $8\frac{7}{9}$ into a "top-heavy" fraction

12 Simplify the following expression… $4b^2 - 5b - b^2 + 6b$

13 118° Calculate the missing angle… ?°

14 How far did Santa fly in 1 hours 15 mins at an average speed of 300 m.p.h.?

15 Calculate the volume of this present… 20 cm 0·5 m 30 cm

16 If m = -1 and c = 2 calculate :- $2m^2 - 3c$

17 Select the prime number(s) from the following list… 21, 23, 25, 27, 28, 29

18 Solve the equation… $6x - 5 = -23$

19 What is the Highest Common Factor of 32 and 80?

20 Calculate $\frac{2}{3} - \frac{1}{4}$

21 Write a rule and complete the table…

Trees (T)	1	2	3	17	?
Baubles (B)	11	19	27	?	195

22 Calculate the area of this cardboard manger… 10 cm 18 cm 30 cm

23 Calculate 40 ÷ 0·005

24 Santa was left 350 millilitres of milk. How many litres is this?

25 This formula is for cooking a turkey; Cooking time in mins = weight in kg × 45 + 20 Calculate the cooking time, in hrs and mins, for a 3 kg turkey.

26 This £60 pair of trainers have 30% off in the Boxing Day sale. How much do you save?

27 Calculate the missing angle… 32° ?°

28 Express 28 as a product of prime factors

29 Max got some new building blocks from Santa. Each block has a height of 10 cm. He stacks them on top of each other to make a tower. When complete, what is the volume of his tower?

30 The official currency of Lapland is euros. Santa exchanged £300 and received €342. What is the current exchange rate?

31 What is the bearing FROM Lapland to Glasgow? North Lapland 63° Glasgow

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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	