RIGOUR
by cdmasterworks Ltd

Numeracy for Learning, Life and Work

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

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

July National 🚂 Maths Calendar

#abitofmathseveryday

1 Calculate the area of this composite shape...
10 m, 12 m, 8 m, 11 m
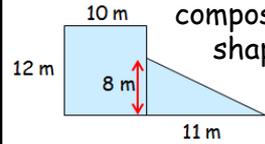
2 Exchange Rate:- £1 = €1·15
How many euros would I receive for £400?

3 Simplify the following expression...
$4g + 3h - g + 8h$

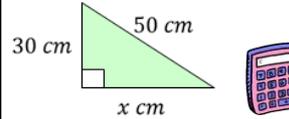**4** Calculate the range of the following data set...
7, -5, 1, -7, 6, 3, -2

5 Calculate the length of the missing side...
30 cm, 50 cm, x cm

6 Multiply out the following brackets and gather like terms...
$2(x + 5) + 3(2x + 7)$

7 John scored 57 out of 70 in his maths test. Calculate his percentage, rounding your answer to the nearest percent.
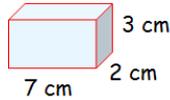
8 To feed some animals in a zoo 6·3 kg of rice was mixed with 4·17 kg of vegetables. The animals ate 8 kg of feed. How much feed is left?

9 Calculate the surface area of this cuboid.
3 cm, 2 cm, 7 cm

10 Calculate $\frac{2}{5}$ of 385

11 Write a rule and complete the table...

tables	1	2	3	9	
people	3	7	11		59

12 Calculate the gradient of the following hill...
14 m, 60 m
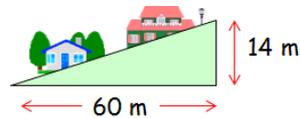
13 Solve the following equation...
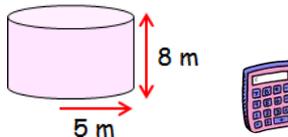$8x - 15 = 3x + 5$

14 Decrease €300 by 10%

15 A plane flies 920 kilometres in 2 hrs 18 mins. What is it's average speed?
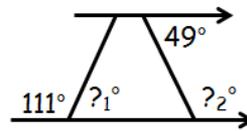
16 Calculate the volume of this cylinder
8 m, 5 m

17 Calculate the missing angles...
49°, 111°, ?₁°, ?₂°
($?_1^\circ$, $?_2^\circ$)

18 Factorise the following expression...
$48t - 56$

19 Calculate the hire purchase price for a sofa which requires a £50 deposit and 36 payments of £9.
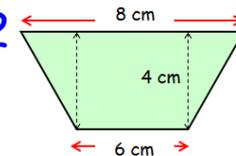
20 If $a = 3$ and $b = 4$ calculate :-
$4a + 5b$

21 12 854 eggs are packed into boxes which will each hold 16 eggs. How many boxes are needed to hold all the eggs?

22 8 cm, 4 cm, 6 cm
Calculate the area of this trapezium.

23 Share 54 in the ratio of 4 : 5

24 The weather forecast predicts a 33 in 45 chance of rain in Scotland. It also predicts a 47 in 65 chance of rain in England. Is it more likely to rain in Scotland or England? You must give a reason your answer.
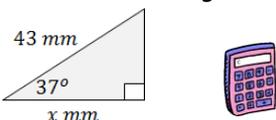
25 Calculate the median of the following data set...
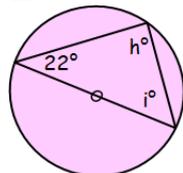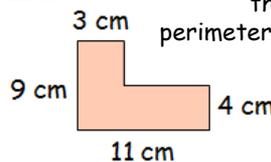7, 2, 1, 5, 4, 6

26 Calculate the length of the missing side...
43 mm, 37°, x mm

27 What are the sizes of the missing angles?
22°, h°, i°

28 Calculate the perimeter...
3 cm, 9 cm, 4 cm, 11 cm

29 The mean weight of three cows is 720 kilograms. Two of the cows weigh 500 and 880 kg. What is the weight of the third cow?

30 3 light bulbs cost £2·70. How much for 7 light bulbs?

31 Calculate the size of the missing angle...
123 m, x°, 28 m