RIGOUR
by cdmasterworks Ltd

Numeracy for Learning, Life and Work

rd Level
Number and Number Process
MNU 3-03b

Certificate
Exercises | Homework | Homework Answers
Bronze
Lifeskills | Assessments | Assessment Answers
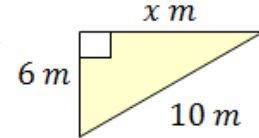
February CfE 4th Level Calendar
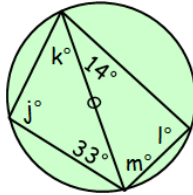
#abitofmathseveryday

1 Write $5 \cdot 23 \times 10^4$ in number form.

2 Calculate the length of the missing side.
x m, 6 m, 10 m

3 Calculate the size of the missing angles…
$k°$, $14°$, $j°$, $33°$, $m°$, $l°$
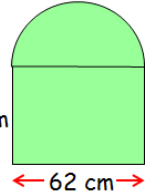
4 Calculate $5\frac{1}{2} - 1\frac{3}{5}$

5 It takes 3 men 12 hours to shovel snow. How long will it take 4 men at this rate?

6 Multiply out the following brackets and simplify…
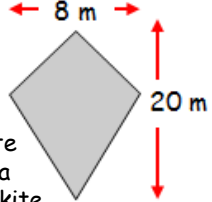$5(x + 8) - 3(2x - 7)$

7 Stevie scored 86 out of 110 in his maths prelim. What was his percentage? Round your answer to the nearest percent.
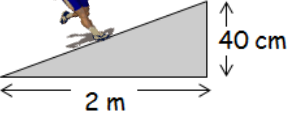
8 Calculate $\sqrt{(100 - 36)} \div 2^2$

9 A bus is going on a 52 mile school trip. The bus travelled 28·24 miles before taking a short break. It then travelled a further 8·024 miles. How much further does it have to go?

10 Calculate the area of this shape…
40 cm, 62 cm

11 Calculate 56×78

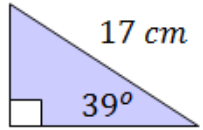**12** Calculate the area of this kite…
8 m, 20 m

13 Calculate the gradient of this treadmill…
40 cm, 2 m

14 Dominic pays £48 for a Valentine's dinner. He tips the waiter 10% of the value of the bill. How much does he pay in total?

15
| inch | 2·54 cm |
| foot | 30·48 cm |

An American Football player is 6 ft 4 in tall. How tall is he in metres?

16 Calculate the length of the missing side.
x cm, 17 cm, $39°$

17 Matches are manufactured that must have a tolerance of $(30 \pm 3\cdot5)$ mm. What are the minimum and maximum lengths of matches that are acceptable?

18 Solve the following equation…
$9x + 15 = 3 + 5x$

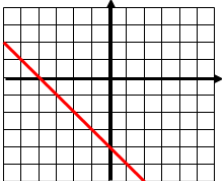**19** Calculate the median of the following data set…
8, 2, -4, 5, -6, 1

20 How many 150 ml cups of coffee can be filled from a 3 litre coffee machine?

21 An art dealer paid £800 for an oil painting. He sold it for £920. Express this profit as a percentage of what he paid for the painting.
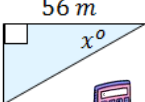
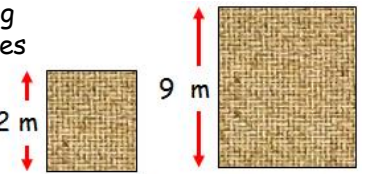**22** Factorise the following expression…
$15a - 24$

23 How far did a scooter travel in 36 minutes at an average speed of 7 m.p.h.?

24 Calculate $4232 \div 92$

25 Write the equation of the straight line

26 Find the 'nth' term for the following sequence and hence find the 10th term;
4, 10, 16, …

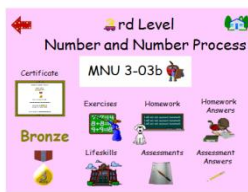**27** Calculate the size of the missing angle. Round your answer to 1 decimal place.
56 m, 32 m, $x°$

28 The following carpet samples are mathematically similar. Calculate the missing area…
2 m, 9 m, Area = 8 m², Area = ?

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1	2	3	4	5	6
7	B	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28		