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

August CfE 4th Level Calendar
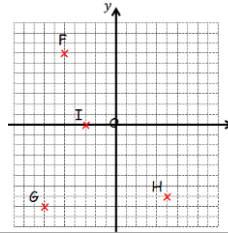
#abitofmathseveryday

1 Write 230 500 in scientific notation.

2 Davie the joiner is sawing a 14 metre piece of wood. He makes a 7·4 metre cut followed by a 4·59 metre cut. How long is the remaining piece of wood?

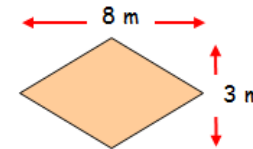**3** Solve the following equation...
$$6x + 2 = 23 - x$$

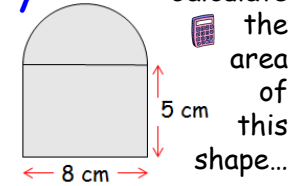**4** What are the co-ordinates of F, G, H and I?

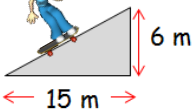**5** How far did a man run in 42 mins at an average speed of 5 m.p.h.?

6 Calculate the area of this rhombus...
8 m, 3 m

7 Calculate the area of this shape...
5 cm, 8 cm

8 Calculate the gradient of the following ramp...
6 m, 15 m

9 A fruit and veg stall was set up in a market. The ratio of tomatoes : cucumbers : onions on sale was 8 : 3 : 2. If there were 180 onions altogether how many vegetables in total were on sale?

10 Evaluate
$$\sqrt[9]{512}$$

11 Calculate
$$178 \times 46$$

12 Increase $450 by 30%

13 A bath can hold 90 litres of water. How many baths could be filled from 2379 litres of water?
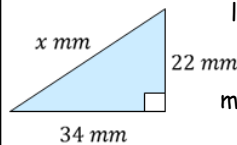
14 Factorise the following expression...
$$36w - 60$$

15 Hannah scored 92 out of 130 in her geography test. Calculate her percentage, rounding your answer to the nearest percent.

16 Calculate the length of the missing side...
$x\ mm$, $22\ mm$, $34\ mm$

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

18 Driver 1 has won 7 of his last 18 races. Driver 2 has won 9 of his last 24 races. Statistically, who is more likely to win the next race?

19 Calculate
$$(25 - 7) \div 3^2$$

20 The distance on a fairway is 280 yards. Given that 1 yard = 91·44 cm, how many metres is this? Give your answer to the nearest metre.
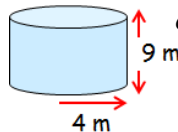
21 The mean cost of ten books is £21. Six of the books cost £15, two books cost £20 and one book costs £35. What is the cost of the tenth book?
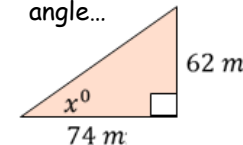
22 Multiply out the following brackets and gather like terms...
$$4(2x + 3) - 2(x + 5)$$

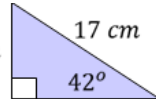**23** Calculate the surface area of this cylinder...
9 m, 4 m

24 Calculate the size of the missing angle...
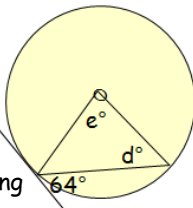x^0, 62 m, 74 m

25 Find the 'nth' term for the following sequence and hence find the 10th term;
6, 2, -2, ...

26 Calculate
$$1482 \div 19$$

27 Calculate the length of the missing side...
$x\ cm$, 17 cm, 42°

28 Calculate the missing angles...
$e°$, $d°$, 64°

29 To cook a turkey in an oven, a recipe recommends a temperature of $(190 \pm 10\%)°C$. What are the min and max temperatures that are acceptable?

30 The following stamps are mathematically similar. Calculate the missing area...
12 mm, Area = 168 mm², 60 mm, Area = ?

31 Calculate
$$\frac{3}{4} \times \frac{2}{5}$$

RIGOUR
by cdmasterworks Ltd

Numeracy for Learning, Life and Work

rd Level Number and Number Process
MNU 3-03b

Certificate

Bronze

Exercises | Homework | Homework Answers

Lifeskills | Assessments | Assessment Answers

August CfE 4th Level Calendar

#abitofmathseveryday

						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	