RIGOUR
by cdmasterworks Ltd

Numeracy for Learning, Life and Work

rd Level
Number and Number Process
MNU 3-03b

Certificate
Bronze
Exerciser Homework Homework Answers
Lifeskills Assessments Assessment Answers

November CfE 4th Level Calendar
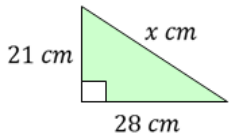
#abitofmathseveryday

1 A rocket flies 1768 kilometres in 3 hrs 24 mins.

What is it's average speed?

2 Neil is going on a 50 mile cycle at the weekend. He cycled 28·57 miles before he stopped for a short break. He then cycled a further 12·923 miles. How much further does he still have to cycle?

3 Calculate the length of the missing side...

$21\ cm$ $x\ cm$ $28\ cm$

4 Calculate

385×29

5 In a sample of sparkler boxes it was found that the minimum number of sparklers per box was 21 and the maximum was 25. Write this in tolerance form.

6 Mick changed £150 into euros, receiving €162 for his money. His friend David changed £90 spending money into euros at the same exchange rate. How many euros did David receive?

7 Kevin scored 19 out of 25 in his History test.
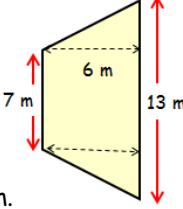
Calculate his percentage.

8 Factorise the following expression...

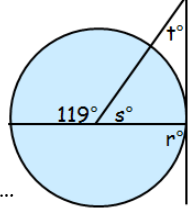$12x - 30$

9 Decrease 78 kilograms by 10%

10 Calculate
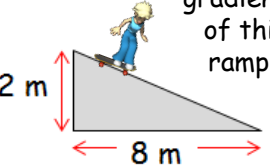
$10 - (2 + 1)^2$

11 Calculate the area of this trapezium.

$7\ m$ $6\ m$ $13\ m$

12 Calculate the size of angles r, s and t...

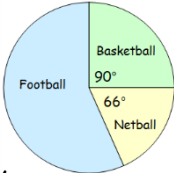$119°$ $s°$ $t°$ $r°$

13 Calculate the median of the following data set...

4, -3, 5, -6, 1, -7

14 Calculate the gradient of this ramp...

$2\ m$ $8\ m$
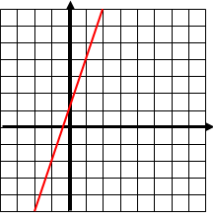
15 480 children asked. How many preferred football?

Basketball $90°$
Football
Netball $66°$

16 Write 0·004509 in scientific notation.

17 Solve the following equation...
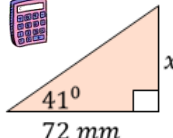
$7x - 12 = 3x - 4$
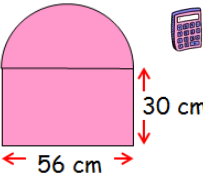
18 Write the equation of the straight line

19 James bought 12 raffle tickets from a book with 150 tickets. Scott bought 30 raffle tickets from a book with 200 tickets. Who is more likely to win?

20 Calculate the length of the missing side...

$x\ mm$ $41°$ $72\ mm$

21 Calculate the area of this shape...

$30\ cm$ $56\ cm$

22 Slush Puppies are poured from a 80 litre Slushie machine. Each Slushie contains 330 ml. How many Slushies can be made from a full Slushie machine?

23 Express $\frac{1}{15}$ as a decimal

24 Calculate

$6\frac{2}{3} + 3\frac{1}{5}$

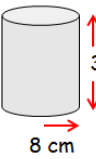**25** Multiply out the following bracket and simplify...

$9 - 3(x - 5)$

26 Calculate

$782 \div 17$

27 Find the 'nth' term for the following sequence and hence find the 10th term;
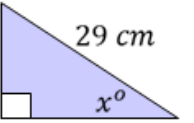
2, 8, 14, ...

28 The mean cost of eight cars is £7200. Four of the cars cost £8000, two cars cost £5000 and one car costs £3000. What is the cost of the eighth car?
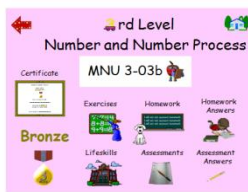
29 Calculate the surface area of this cylinder...

$35\ cm$ $8\ cm$

30 Calculate the size of the missing angle...

$29\ cm$ $18\ cm$ $x°$

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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