



**1** Area =  $12.56 \text{ cm}^2$

Calculate the volume of this cylinder.

20 cm

**2** Calculate

$283 \times 165$

**3** Multiply out the following brackets and gather like terms...

$5(3x - 1) - 4(x - 7)$

**4** Cara scored 111 out of 130 in her higher maths test. Calculate her percentage, rounding your answer to the nearest percent.

**5** Calculate

$3\frac{1}{5} - 1\frac{5}{6}$

**6** Calculate

$(10 - 6) \times 4^2$

**7** Factorise the following expression...

$8x - 30$

**8** Decrease \$320 by 5%

**9** Write 0.0000307 in scientific notation.

**10** Solve the following equation...

$7x + 6 = 90 - 5x$

**11** Nicola blends 0.58 litres of pineapple juice with 0.8 litres of orange juice. She drank 0.329 litres. How much juice does she have left?

**12** To roast a ham in an oven, a recipe recommends a temperature of  $(180 \pm 10\%)^\circ\text{C}$ . What are the min and max temperatures that are acceptable?

**13** Calculate the length of the missing side...

25 cm

20 cm

x cm

**14** Organic apples are sold in bags of 6. How many bags can be made from 207 apples?

**15** A car, stuck in traffic, travelled 7.2 miles in 1 hr and 12 mins. What was it's average speed?

**16** Evaluate

$\sqrt[6]{4096}$

**17** Calculate the area of this parallelogram...

31 cm

10 cm

**18** Express  $\frac{5}{9}$  as a decimal

**19** 42 people asked. How many preferred white choc?

**20** The mean cost of 3 theme park tickets is £20. One ticket costs £28 and another costs £26. What is the cost of the third ticket?

**21** Calculate

$1216 \div 32$

**22** What are the co-ordinates of A, B, C and D?

**23** Striker 1 has scored 5 goals in his last 8 games. Striker 2 has scored 9 goals in his last 12 games. Statistically, who is more likely to score next?

**24** Calculate the length of the missing side...

9 mm

49°

x mm

**25** Calculate the gradient of the following hill...

50 cm

6 m

**26** Share £300 in the ratio of 1 : 2 : 3.

**27** Find the 'n<sup>th</sup>' term for the following sequence and hence find the 20<sup>th</sup> term;

2, 5, 8, ...

**28** Calculate the size of the missing angle...

61 m

23 m

$x^\circ$

**29** Frank has been training to run a marathon. Since he started training his weight has dropped from 75 kg to 60 kg. Express his weight loss as a % of his original weight.

**30** Calculate the perimeter of this shape...

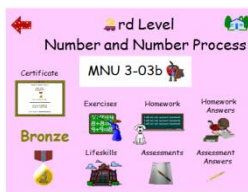
5 cm

8 cm

# RIGOUR

by cdmasterworks Ltd

Numeracy for Learning, Life and Work



## April CfE 4<sup>th</sup> 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