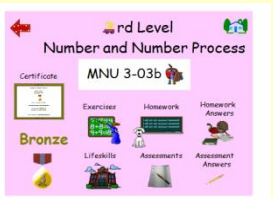
RIGOUR

by cdmasterworks Ltd

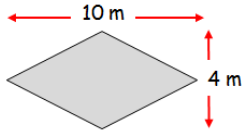
Numeracy for Learning, Life and Work



May CfE 4th Level Calendar

#abitofmathseveryday

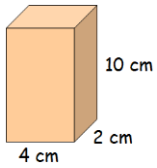
1 Calculate the area of this rhombus...



2 Multiply out the following brackets and gather like terms...

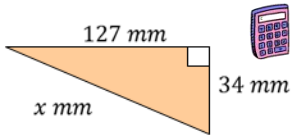
$7(2x-3)-8(x-4)$

3 Calculate the surface area of this cuboid...



4 Hannah scored 78 out of 110 in her National 5 maths exam. Calculate her percentage, rounding your answer to the nearest percent.

5 Calculate the length of the missing side...



6 Write 38 600 in scientific notation.

7 Calculate

72×46

8 Solve the following equation...

$8x-1=5x+11$

9 Calculate

$(-7 + 25) \div 6^2$

10 Evaluate

$\sqrt[5]{59\,049}$

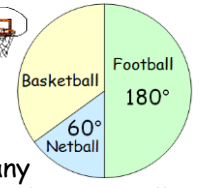
11 A savings account will pay 6·3% simple interest p.a.

How much interest will savings of £400 earn after 8 months?

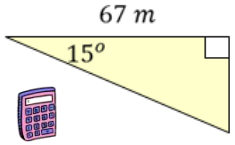
12 Calculate

$629 \div 17$

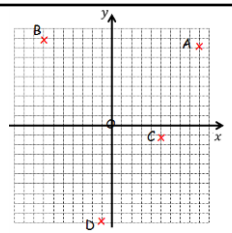
13 240 people asked. How many preferred basketball?



14 Calculate the length of the missing side...



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



16 Onions are sold in packs of 3. How many packs can be made from 359 onions?

17 Increase 24 grams by 10%

18 Calculate

$6\frac{1}{3} - 2\frac{3}{4}$

19 To bake a pie in an oven, a recipe suggests a temperature of $(160 \pm 5\%)°C$.

What are the min and max temperatures that are acceptable?

20 Factorise the following expression...

$16x - 48$

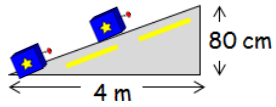
21 Express $\frac{7}{45}$ as a decimal

22 A band share royalties from a hit record. The money was shared between Paul : John : George : Ringo in the ratio of 4 : 5 : 2 : 1. If John received £12 000, how much did George earn?

23 A milk float travelled for 2 miles in 24 mins.

What was it's average speed?

24 Calculate the gradient of the following assembly line...



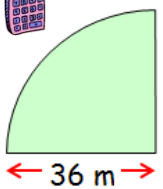
25 A vase contained exactly 2 litres of water. On a sunny day, 0·628 litres of water evaporated.

How much water was left in the vase?

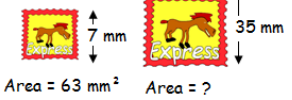
26 Find the 'nth' term for the following sequence and hence find the 30th term;

6, 8, 10, ...

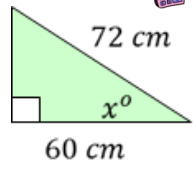
27 Calculate the area of this shape...



28 The following stamps are mathematically similar. Find the missing area...



29 Alison bought a washing machine priced £480. Including the delivery charge she paid a total of £492. Express the delivery charge as a % of the price of the washing machine.

30 The mean shoe size of three pupils is size 4. Two of the pupils are sizes 2 and 3. What is the shoe size of the third pupil?

31 Calculate the size of the missing angle...