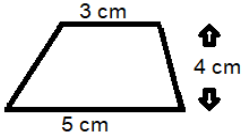# DECEMBER... A LITTLE BIT OF MATHS EVERY DAY

JustMaths

1 Calculate

$$2\frac{3}{7} - \frac{4}{7}$$

2 A square has a perimeter of 40cm what is its area?

3 Solve

$5x - 3 = 21$

4 Without a calculator, work out

$486 \div 18$

5 Work out 150% of 300

6 What is the 3rd square number mulitplied by the 2nd cube number?

7 Write 136 as a product of its prime factors.

8 Share 1980 in the ratio 4:7

9 Calculate the area

3 cm
4 cm
5 cm

10 What is the percentage increase from £480 to £600 ?

11 Write as an improper fraction

$3\frac{6}{15}$

12 Write 106 500 in standard form

13 Jasmine can decorate 37 cakes every 5 minutes.
She works for 7 hours a day.
Estimate the total number of cakes she can decorate in one day.

14

15 A car will depreciate by 20% its original value every year.
After how many years is it worth less than half the original value?

16 Expand
$4x^2(2x - 1)$

17 What information must be given to decribe an enlargement?

18 Factorise
$x^2 + 8x + 15$

19

20 Think of a number between 0 and 20.
Add 32 to it.
Multiply by 2.
Now close your eyes ...
its dark isnt it?? Have a break ... its Christmas!

21

22 Helen & Nicola share some money in the ratio 1:3. What fraction of the total does Helen have?

23 Write
0.0378×10^3
in standard form

24 Calculate
$4 + 3 \times 5 - 1$

25 MERRY CHRISTMAS!!

26 Round 0.269 to the 2 significant figures

27 The perimeter of the triangle is 64 cm.
The sides are in the ratio: 6 : 5 : 5
Calculate the area of the triangle

28

29 What number is halfway between
$\frac{1}{2}$ and $1\frac{1}{4}$

30 Mel and Chris share some money in the ratio 3:2.
Mel has £35 more than Chris.
How much do they share?

31 How many prime numbers are there between 0 and 100?

REMEMBER: The best way to revise maths is to "do Maths"!