DECEMBER... A LITTLE BIT OF MATHS EVERY DAY

JustMaths

1
Calculate
$2\frac{3}{7} - \frac{4}{7}$ $\frac{13}{7} = 1\frac{6}{7}$

2
A square has a perimeter of 40cm what is its area?
$100cm^2$

3
Solve
$5x - 3 = 21$
$5x = 24$
$x = 4.8$

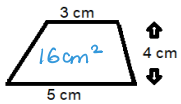
4
Without a calculator, work out
$486 \div 18$
27

5
Work out
150% of 300
450

6
What is the 3rd square number mulitplied by the 2nd cube number?
$9 \times 8 = 72$

7
Write 136 as a product of its prime factors.
$2^3 \times 17$

8
Share 1980 in the ratio 4:7
720 : 1260

9
Calculate the area


10
What is the percentage increase from £480 to £600 ?
25%

11
Write as an improper fraction
$3\frac{6}{15}$ $\frac{51}{15}$

12
Write 106 500 in standard form
1.065×10^5

13 **14**
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.
$60 \div 5 = 12$.
$37 \times 12 \times 7 \approx 40 \times 10 \times 10 = 4000$

15 **16**
A car will depreciate by 20% its original value every year.
After how many years is it worth less than half the original value?
4 years

17
Expand
$4x^2(2x - 1)$
$8x^3 - 4x^2$

18
What information must be given to decribe an enlargement?
scale factor and centre of enlargement.

19
Factorise
$x^2 + 8x + 15$
$(x + 3)(x + 5)$

20 **21**
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!

22
Helen & Nicola share some money in the ratio 1:3. What fraction of the total does Helen have?
$\frac{1}{4}$

23
Write
0.0378×10^3
in standard form
3.78×10

24
Calculate
$4 + (3 \times 5) - 1$
18

25
MERRY CHRISTMAS!!

26
Round 0.269 to the 2 significant figures
0.27

27 **28**
The perimeter of the triangle is 64 cm.
The sides are in the ratio: 6 : 5 : 5
Calculate the area of the triangle
TOUGHIE!


height $\sqrt{20^2 - 12^2} = 16$
Area $= \frac{1}{2} \times 24 \times 16$
$192cm^2$

29
What number is halfway between
$\frac{1}{2}$ and $1\frac{1}{4}$ $\frac{7}{8}$

30
Mel and Chris share some money in the ratio 3:2.
Mel has £35 more than Chris.
How much do they share?
£175

31
How many prime numbers are there between 0 and 100?
25

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