Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
DECEMBER '17				**1** 250g of cheese costs £3.60, how much will 350g cost? *÷6* 250g = 3.60 50g *x7* 350g £5.04	**2** Laura has a box of mince pies. She gives half of them to Julia. Julia eats three of her pies and then has 5 left. How many mince pies did Laura have in the box? 8×2=16	**3**
4 What is 25^0? 1	**5** If you were given all the gifts in the "12 days of Christmas" how many would you have in total? 364	**6** 11250 cm³ Maddies present is in the shape of cuboid with dimensions 30 cm, 25 cm and 15 cm. What is the volume of her present?	**7** 6:34am Santa leaves home at 11:58pm and is out for 6 hours 36 minutes. What time does he return home?	**8** What is the probability of rolling 2 sixes at the start of a family game of monopoly? $\frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$	**9** Christian and Helen are decorating a Christmas tree. Christian removed half of the decorations from the storage box - Helen then took half of the remaining decorations from the box and there were 3 decorations left. How many decorations are there altogether? 12	**10**
11 It is estimated that Santa travels 510,000 km. What is this distance written in standard form? 5.1×10^5	**12** There are 7 people eating lunch. If each person shares a Christmas cracker with EVERY other person, how many crackers are required? 21	**13** By rounding estimate the answer to the below: $\sqrt[3]{\frac{785 \times 2.156}{0.19}}$ = 20	**14** Santa's elves get paid at £8.40 per hour for up to 10 hours work. Any time over this is paid at 1.25 the normal hourly rate. How much do they get paid for 12.5 hours? £110.25	**15** True or False? $a^4 \div a^{-4} = 1$ $a^{4--4} = a^8$ FALSE	**16** A box of nuts contains hazelnuts and walnuts. There are 30 walnuts and the probability of choosing a walnut from the box is 0.6 How many hazelnuts are in the box? H W 30 H W 0.6 50 total 50−30 = 20	**17**
18 If a reindeer runs at 30 kph for 20 mins, what distance will the reindeer have travelled? 10km	**19** Without a calculator, work out $25 \times 12 \times 2017$ 605100	**20** How many 'las' are after the 'fa' in the carol "Deck the Halls? 8	**21** The ratio of angles in a triangle is 2:3:5 Is the triangle right angled? YES 18° 36°:54°:90°	**22** A cracker has a volume of 14070 mm³ What is the volume in cm²? 14.07cm²	**23** **CHOCOLATE CAKE** for 6 people 150 g flour 150 g sugar 120 g cocoa 3 eggs	**24** Emma has: 8 eggs, 450 g flour, 380 g sugar, 300g cocoa What is the maximum number of people that she can make cake for ? 15
25 MERRY CHRISTMAS	**26** Lois has 4 more chocolates than Rob but Matt has twice as many chocolates as Lois. There are 60 chocolates altogether - how many do they each have? L R M 16 12 32	**27** How many days are there between Christmas day and Feb 1st 2018? 38	**28** If it takes 3 people 8 hours to wrap a load of presents, how long will it take 8 people to wrap the same presents? 3 hours	**29** Cake A is 60% of the size of cake B. Cake B is 40% of the size of cake C. What percentage of cake C is cake A? 24%	**30** A New Years Eve drink is made using pineapple juice and pink lemonade in the ratio 3:5 Pineapple juice costs £1.20 per litre and pink lemonade costs £1.60 per litre. What is the cost of 15 litres of the drink? £21.75	**31**

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

5th:-

$12 \times 1 = 12$
$11 \times 2 = 22$
$10 \times 3 = 30$
$9 \times 4 = 36$
$8 \times 5 = 40$
$7 \times 6 = 42$

$6 \times 7 = 42$
$5 \times 8 = 40$
$4 \times 9 = 36$
$3 \times 10 = 30$
$2 \times 11 = 22$
$1 \times 12 = 12$

23rd

	6	1
Flour	150g	25g
Sugar	150g	25g
Cocoa	120g	20g
Eggs	3	½

8 eggs = 16
450g flour = 18
380g sugar = 15.2 = 15
300g cocoa = 15.

MAX = 15

22nd $14070 \, mm^2$

10 mm 140.7 cm / 1407 mm
1 cm
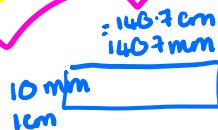
$1m = 100cm$
$1m = 1000mm$

$= 140.7 \, cm^2$

14th $1.25 \times 8.40 = 10.50$ per hour overtime

10×8.40
2.5×10.50

$\begin{array}{r} 84.00 \\ + \ 26.25 \\ \hline 110.25 \end{array}$

13th $\dfrac{\sqrt{800 \times 2}}{3 \sqrt{0.2}}$

$3\sqrt{\dfrac{1600}{0.2}}$

$3\sqrt{8000}$

$= 20$

29th

A   B   C
0.6B   0.4C   x

$0.6 \times 0.4C$
$0.24C$ 24%

12th A B C D E F G

$= 21$

18th 30 kph

30 km = 60 mins
÷3 → 10 km = 20 mins

26th Lois   Rob.   Matt
        $x + 4$ x $2x + 8$
        16   12   32
        $4x + 12 = 60$ $x = 12$

30th 31st   Pine Lem
        3 : 5   15 litres
        1.20   1.60
    × 5.625   9.375
        £6.75   £15