APRIL ... A LITTLE BIT OF MATHS EVERY DAY

JustMaths

1 Work out:

$\frac{2}{5} \times \frac{1}{3}$ $\frac{2}{15}$

2 Share 200 in the ratio 3:2

120 : 80

3 Work out (without a calculator)

125.2 x 49

6134.8

4 Simplify

4y + 2x – 3 + 3x + 8

5x + 4y + 5

5 Work out 70% of 120

84

6 Simplify

$(2a^3)^3$

$8a^9$

7 Write 4.78×10^{-3} as an ordinary number

0·00478

8 I buy a "thing" in a sale that has been reduced by 15%. The sale price is £102. What was the original price?

£120

9 Write 3.87×10^{-4} as an ordinary number

0·000387

10 Mel got 32 out of 80 on her maths exam. Write this as a percentage

40%

11 Simplify

$\frac{8m^2 \times m^5}{4m^3}$ $2m^4$

12 Expand

(x + 2)(x – 3)

$x^2 - x - 6$

13 Calculate $9 \times 10^4 \times 3 \times 10^3$ Give your answer in standard form.

2.7×10^6

14 Write 1104 as a product of its prime factors.

$2^4 \times 3 \times 23$

15 Work out 30% off £19

£13·30

16 Work out

a) 0.4 x 0.8

b) 0.3 x 0.2

a) 0·32 b) 0·06

17 Work out

148 x 11

without a calculator

1628

18 What is the median of these numbers?

3 12 9 19 3 14 13 13 8 5

10·5

19 Write

3.45×10^4 as an ordinary number

34500

20 A "thing" increases from £40 to £120. What is the percentage increase?

£80 increase

= 200%

21

22 Factorise

$4yx^3 - y^2x^2$

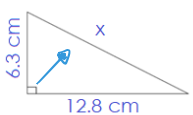
$yx^2(4x - y)$

23 Calculate x

$\sqrt{6.3^2 + 12.8^2}$

14·27cm (2d.p)

24



25 Evaluate

$3^3 + 5^2$

52

26 Simplify

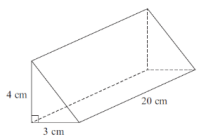
$(a^5)^{-2}$

a^{-10}

27 What is the volume of the prism?

120cm³

28



29 What is the circumference of a circle with radius 5cm?

D = 10cm

C = π x 10 = 10π = 31·4cm

30 What is the midpoint between (2,7) and (10,13)?

(6, 10)

31 What is?

$\frac{3}{25}$ of 50

= 6

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