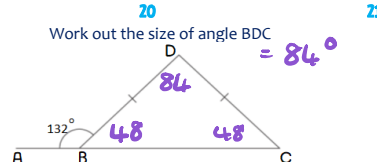



M: W
S: 3
20: 12 $\downarrow \times 4$
W: C
4: 1
12: 3

A LITTLE BIT OF MATHS EVERY DAY ...

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
1 Write 27.14×10^7 in standard form 2.714×10^8	2 What is the value of 34^0 ? 1	3 Calculate 22.5% of £260 £58.50	4 The ratio of Men: Women at a sports club is 5:3 The ratio of Women: Children is 4:1 What is the ratio of Men:Children? 20:3	5 Convert to a mixed number fraction $\frac{23}{3} 7\frac{2}{3}$	6 Christian receives a salary increase of 4%, which is worth £840. What was his salary before the increase? $4\% = 840$ $1\% = 210$ $100\% = £21,000$	7
8 I have 6 red pens and 3 green pens. What fraction of the pens are green? $\frac{3}{9}$	9 $\frac{1}{2}$ a child!! 350 people are in a cinema. 35% are children. are women. 2/5 The rest are men. How many men are there? oops.	10 Solve $5x - 9 = 4$ $x = 2.6$	11 Without a calculator work out $2.4 \div 0.2$ $= 12$	12 Without a calculator $\frac{19}{20} \times 340$ $= 323$	13 I am thinking of a number. I multiply this number by 3, then add 19. My answer is 61 What number was I thinking of? $(61 - 19) \div 3 = 14$	14
15 Rob buys a pair of sunglasses in the USA for \$35.50 In England, an identical pair of sunglasses costs £26.99 The exchange rate is £1 = \$1.42 Where are they cheapest? USA	16 Factorise fully $5x^2y + 10y^2$ $5y(x^2 + 2y)$ $2a^2b + 6ab^2 + 4$ $2(a^2b + 3ab^2 + 2)$	17 What is 45% written as a decimal? 0.45	18 140 cm of gold wire weighs 3.5 g How much would 110 cm weigh? 2.75g	19 Simplify $4xy - 2xy + 5xy$ $7xy$	20 Work out the size of angle BDC $= 84^\circ$ 	21
22 Without a calculator work out: 4.4×56.1 246.84	23 For the first full year the interest rate is 7.5%. For the second full year the interest rate is 4.0%. How much interest will you earn if you invest £4000 for 2 years? £472	24 Express 22.5 minutes as a percentage of one hour. $\frac{22.5}{60} \times 100 = 37.5\%$	25 Which is the larger fraction? $\frac{3}{4} = 0.75$ $\frac{4}{5} = 0.8$	26 Factorise: $x^2 + 6x + 8 = (x+2)(x+4)$ $x^2 + x - 12 = (x+4)(x-3)$	27 There are 35 students in a class. 17 of the students study Art. 20 of the students study Textiles. 8 of the students study both Art and Textiles. How many students study neither subject? 6	28
29 Solve $6 = -4(x-1)$ $x = -0.5$ $3(y+2) + 2y = y + 9$ $y = 3/4$	30 Estimate $\frac{10 \times 1}{4 \times 0.5} = \frac{10}{2} = 5$ $\frac{11.2 \times 0.99}{4.34 \times 0.51}$	31 Calculate: $3 \div \frac{1}{3} = 9$	 JANUARY '18 REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"! 