

Revision mat 1 Foundation

1) 5, 7, 8, 10, 11, 12, 12, 12, 13.

$$\text{Mean} = \frac{90}{9} = 10$$

$$\text{Median} = 11$$

$$\text{Mode} = 12$$

$$\text{Range} = 13 - 5 = 8$$

3) $4(x-3) - 2(x-9)$
 $= 4x - 12 - 2x + 18$
 $= 2x + 6$

5) a = Diameter
 b = Tangent

7) Angles on a straight line (180°)
 $x = 180 - 112 = 68^\circ$

Angles inside a quadrilateral (360°)
 $y = 360 - (76 + 108 + 65)$
 $= 360 - 249$
 $= 111^\circ$

9) $4(x-5) = 12$
 $4x - 20 = 12$
 $\quad +20 \quad +20$
 $4x = 32$
 $x = 8$

2) 2, 5, 8, 11, 14

$$\begin{array}{cccc} \diagup & \diagdown & \diagup & \diagdown \\ 3 & 3 & 3 & 3 \\ 3n & 3 & 6 & 9 & 12 & 15 \\ \hline & & 3n-1 & & & \end{array}$$

4) $\frac{2}{5}$ OF £140

$$£140 \div 5 = 28$$

$$28 \times 2 = £56$$

6) $5 - 9 = -4$

$$18 \div -6 = -3$$

8) 0.042, 0.042, 0.24,
 0.4, 1, 1.02.

10) Abdullah rolls a dice
 It is unlikely he will
 roll a six.

11) $P = 6 \times 2x = 12x$

12) $700 \times 200 = \pounds 140,000$

13) $10\% \pounds 27.50$
 $5\% \pounds 13.75$
 $\pounds 41.25$

or $0.15 \times 275 = \pounds 41.25$
 $\pounds 275 - \pounds 41.25$
 $= \pounds 233.75$

or $0.85 \times 275 = \pounds 233.75$

14) $9 \text{ kg} \approx 20 \text{ pounds}$
 $\times 100 \qquad \qquad \times 100$
 $900 \text{ kg} \approx 2000 \text{ pounds}$

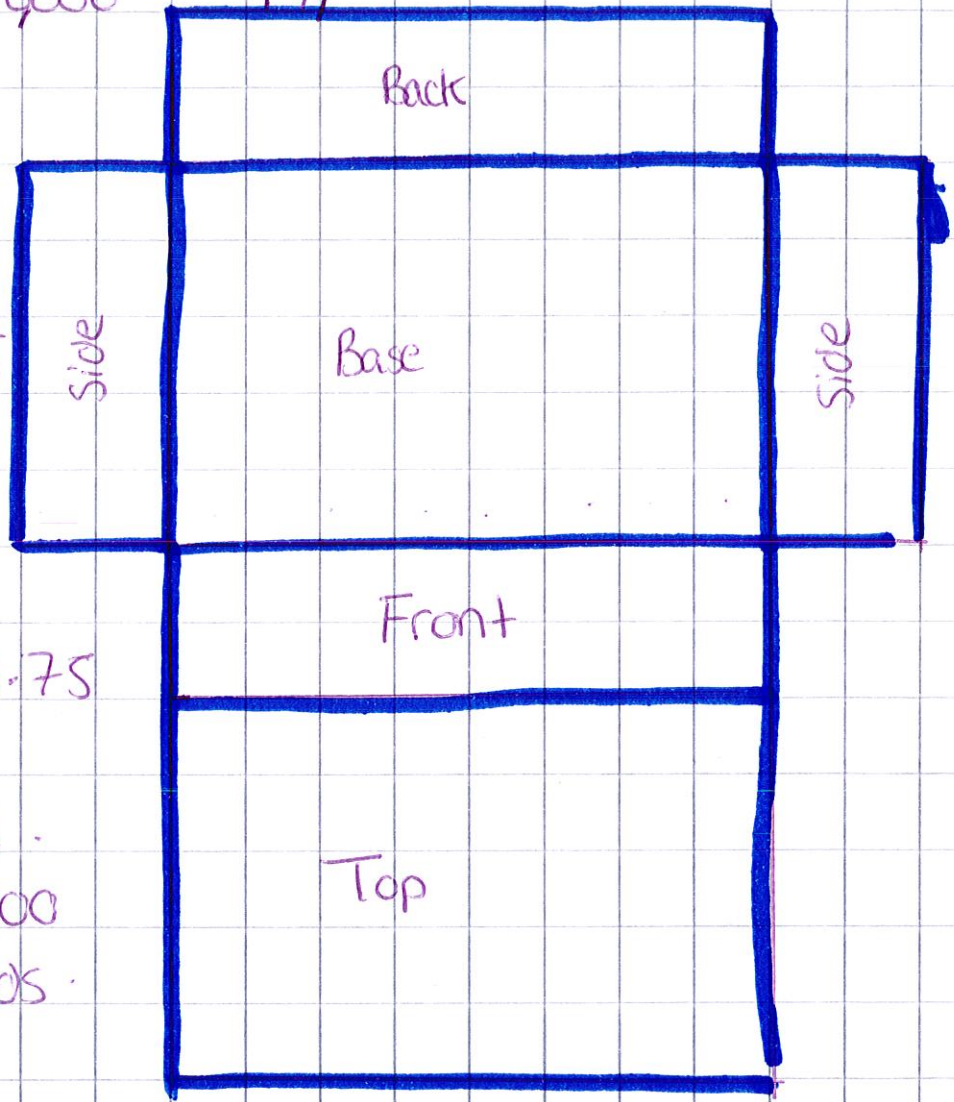
15) 48 cm^2 measures

1×48	$P = 98 \text{ cm}$
2×24	$P = 52 \text{ cm}$
3×16	$P = 38 \text{ cm}$
4×12	$P = 32 \text{ cm}$
6×8	$P = 28 \text{ cm}$

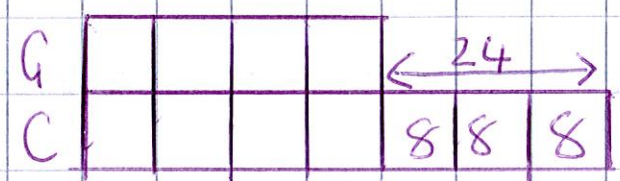
Largest - Smallest = difference
 $98 - 28 = \underline{\underline{70 \text{ cm}}}$

16) $(\times 4 \text{ } 90^\circ = 45 \text{ boys}) \times 4$
 $\searrow 360^\circ = 180 \text{ boys}$
 or Magic number = $\frac{90}{45} = 2^\circ \text{ per boy}$
 $360 \div 2^\circ = 180 \text{ boys}$

17)



Challenge



$3 \text{ boxes} = 24 \text{ sweets}$
 $1 \text{ box} = 24 \div 3$
 $= 8 \text{ sweets}$

$4 + 7 = 11 \text{ boxes total}$
 $11 \times 8 = 88 \text{ sweets}$