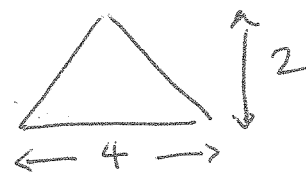
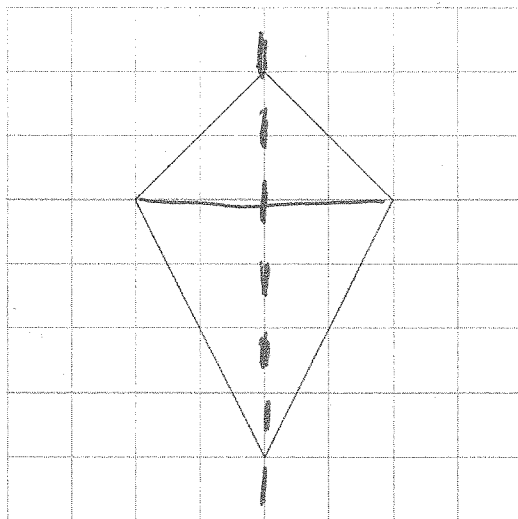
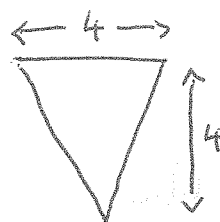


m2 = 21 days to go!

1 The diagram below shows a kite, drawn on a centimetre squared grid.



$$\begin{aligned} \text{Area} &= \frac{1}{2} \text{ base} \times \text{height} \\ &= \frac{1}{2} \times 4 \times 2 \\ &= 4 \text{ cm}^2 \end{aligned}$$



$$\begin{aligned} \text{Area} &= \frac{1}{2} \times 4 \times 4 \\ &= 8 \text{ cm}^2 \end{aligned}$$

(a) Work out the area of the kite.



Answer 12 cm² [1]

(b) Draw a line of symmetry on the kite.

[1]



~~60~~ 61 ~~62~~ ~~63~~ ~~64~~ ~~65~~ ~~66~~ 67 ~~68~~ ~~69~~

9 (a) Write 2 **prime** numbers between 60 and 70

prime numbers are only divisible by 1 and that number itself

Answer 61 and 67 [2]

(b) Which of these is both a **square** number and a **cube** number?

8 16 36 64 100

Square

$$1^2 = 1$$

$$2^2 = 4$$

$$3^2 = 3 \times 3 = 9$$

$$4^2 = 4 \times 4 = 16$$

$$5^2 = 25$$

$$6^2 = 36$$

$$7^2 = 49$$

$$8^2 = 64$$

$$9^2 = 81$$

$$10^2 = 100$$

Cube

$$1^3 = 1$$

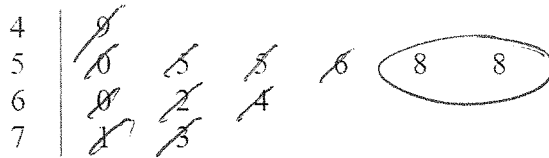
$$2^3 = 2 \times 2 \times 2 = 8$$

$$3^3 = 3 \times 3 \times 3 = 27$$

$$4^3 = 4 \times 4 \times 4 = 64$$

Answer 64 [1]

- 16 The life expectancy for males in 12 countries in Africa for 2015 is shown in the following stem and leaf diagram.



Key: 5 | 3 means 53 years

- (a) How many of these countries had a life expectancy for males of less than 58 years?

49
50 55 55 56

Answer 5 countries [1]

- (b) For the above data work out

- (i) the median.

middle
Knock out numbers from top and bottom
and go towards the middle
Between 58 and 58

Answer 58 years [1]

- (ii) the range.

Range = Biggest - Smallest
= 73 - 49

Answer 24 years [1]

Mode = Most Popular.