

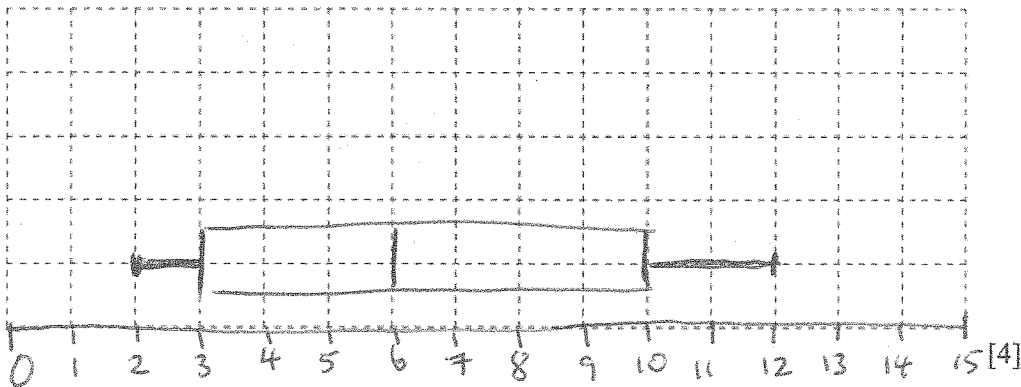
M4 = 19 days to go!

- 21 In a group of 11 pupils, the number of days absent from school was recorded as listed below.

~~12~~ ~~6~~ ~~8~~ ~~2~~ ~~8~~ ~~2~~ ~~3~~ ~~11~~ ~~4~~ ~~10~~ ~~7~~

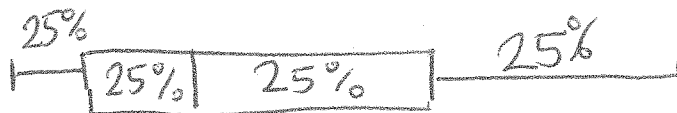
Draw a box plot for this data on the grid.

Put into order
2 2 (3) 4 5 (6) 7 8 (10) 11 12
smallest LQ median UQ biggest



You must have a scale

Remember Box plots show the spread out of the data



The box shows the middle 50%

23 The picture shows the dimensions of a label taken from a cylindrical tin of dog food.

The label covers all the curved surface of the tin with no overlap.

Calculate the volume of the tin.



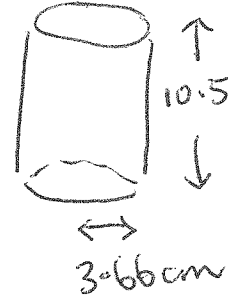
$$C = \pi d$$

$$\pi d = 23$$

$$d = 7.32$$

$$\text{radius} = 3.66 \text{ cm}$$

This wraps around

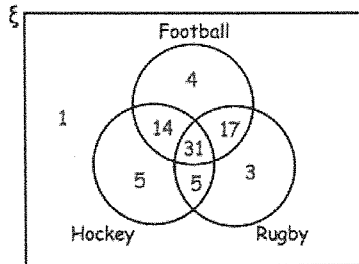


$$V = \pi r^2 h$$

$$V = \pi \times 3.66^2 \times 10.5$$

Answer 442 cm³ [4] (nearest 3 cm)

7. Jennifer asked 80 people which sports they enjoy from Football, Hockey and Rugby.



(a) How many people enjoy all three sports?

31
overlap of all 3 circles (1)

(b) How many people enjoy football and hockey but not rugby?

14
(2)

(c) How many people enjoy football and rugby but not hockey?

17
(2)

(d) Work out which sport is enjoyed by the most number of people.

Football $14 + 4 + 17 + 31 = 66$
Hockey $5 + 5 + 14 + 31 = 55$

Football is most popular
Rugby = $17 + 3 + 31 + 5 = 56$