

February 3rd

5-a-day

Numeracy

$82 - 59 =$

$$\begin{array}{r} 7 \cancel{8} 2 \\ - 59 \\ \hline 23 \end{array}$$

$45 + 29 =$

$$\begin{array}{r} 45 \\ + 29 \\ \hline 74 \end{array}$$

$6 \times 8 =$

48

What number should you add to 43 to make 100?

$$\begin{array}{r} 100 \\ - 43 \\ \hline 57 \end{array}$$

$\frac{3}{5}$

Write as a decimal

0.6

Write as a percentage

60%

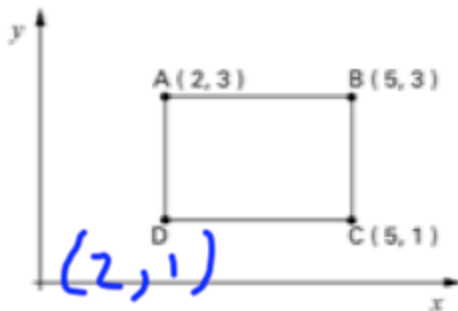
0.17

Write as a percentage

17%

Write as a fraction

$\frac{17}{100}$



What is the coordinate of D?

(2, 1)

Four numbers have:

- a mode of 4
- a range of 7
- a median of 4

List what the four numbers could be

1448
2449
34410 etc
44411

$$W = X + C$$

Make x the subject of the formula

$$W - C = X$$

$$\text{Solve } 10x + 2 = 27$$

$$10x = 25$$

$$x = 2.5$$

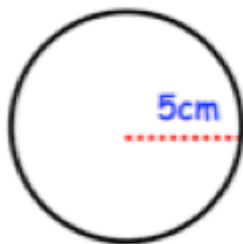
40 people take a test

| | Pass | Fail |
|--------|------|------|
| Male | 10 | 13 |
| Female | 6 | 11 |

16

A person is chosen at random, what is the probability they are pass the test?

$$\frac{16}{40} \quad \frac{8}{20} \quad \frac{4}{10} \quad \frac{2}{5}$$



Calculate the area. Let $\pi = 3$

$$\pi \times r^2$$

$$3 \times 5^2$$

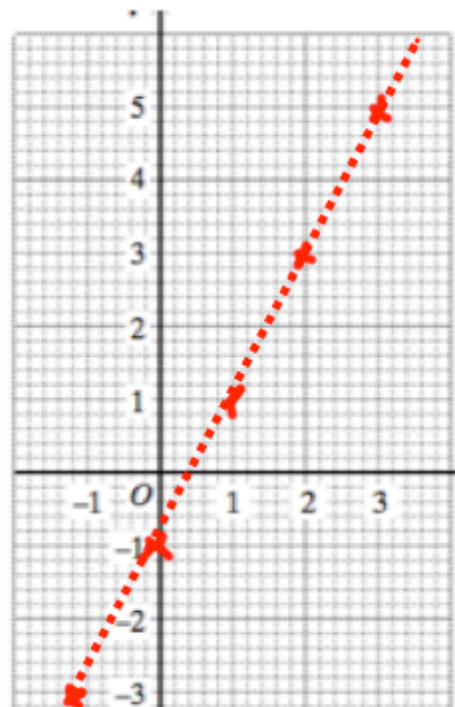
$$3 \times 25$$

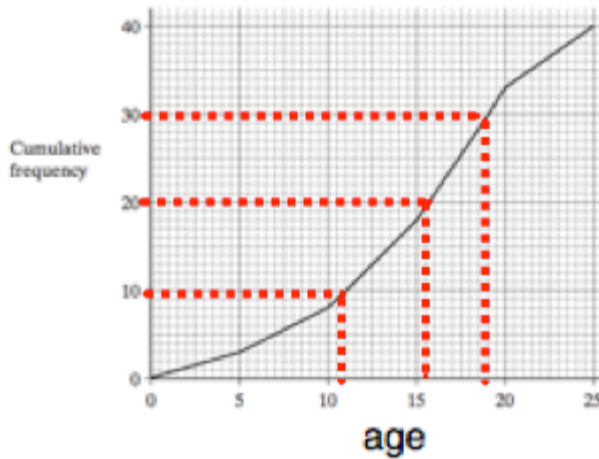
$$75 \text{ cm}^2$$

Complete this table for $y = 2x - 1$

| | | | | | |
|---|----|----|---|---|---|
| x | -1 | 0 | 1 | 2 | 3 |
| y | -3 | -1 | 1 | 3 | 5 |

Plot the coordinates and draw the graph for $y = 2x - 1$



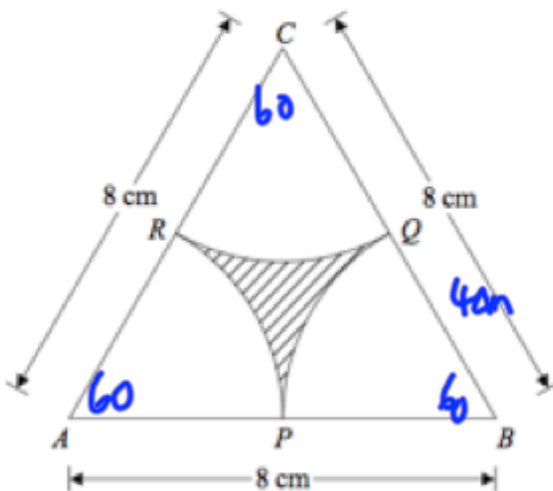


What is the median age?

around 15.5 years

What is the interquartile range?

around 19-11
= 8 years



ABC is an equilateral triangle.

Calculate the area of the shaded region.

One sector:

$$\frac{60}{360} \times \pi \times 4^2 = 8.3776 \text{ cm}^2$$

three sectors

$$8.3776 \times 3 = 25.1328$$

Shaded region

$$27.7128 - 25.1328 =$$

2.58 cm²

Triangle: $\frac{1}{2} \times 8 \times 8 \times \sin 60 = 27.7128 \text{ cm}^2$

A sphere of diameter 8cm is cut from a cube with side length 8cm.

What volume of the cube is wasted? Cube 512 cm³

Sphere $\frac{4}{3} \times \pi \times 4^3 = 268.0825731$

$$512 - 268.082571$$

$$= 243.917429 \text{ cm}^3$$