

January 29th	5-a-day	Numeracy
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Write down the number which is 5 less than three thousand and two.

$$\begin{array}{r} 3002 \\ - 5 \\ \hline \end{array}$$

2997

Martin buys a chocolate bar for 36p.
He pays with a £2 coin.
How much change does he receive?

$$\begin{array}{r} 200 \\ - 36 \\ \hline 164 \end{array} \quad \text{£1.64}$$

There are 24 students in Michael's class.
A third of the class **cycle** to school.
Three eighths of the class **walk**.
The rest of the class travel by **bus**.



How many students travel by bus?

7

$$\begin{array}{r} 3 \boxed{7} 5 \\ + \boxed{4} 8 7 \\ \hline 8 6 2 \end{array}$$

$$\begin{array}{r} 03706 \\ 8 \overline{)29648} \\ \underline{154} \\ 820 \\ \underline{70} \\ 60 \\ \underline{56} \\ 48 \\ \underline{48} \\ 00 \end{array}$$

3706



What type of correlation is shown?

negative

The ratio of boys to girls in year 7 is 2:3

There are 40 boys in year 7, how many girls are there?

$$40 \div 2 = 20$$

$$20 \times 3 = 60$$

Age	Frequency	fx
7	3	21
8	5	40
9	2	18
		<hr/> 79

Work out the mean

$$79 \div 10 = 7.9$$

$$1\frac{1}{2} \times 3\frac{1}{3}$$

$$\frac{3}{2} \times \frac{10}{3} = \frac{30}{6}$$

5

The probability of winning a game is 0.3.

Jayne plays the game 200 times.

How many times should she lose the game?

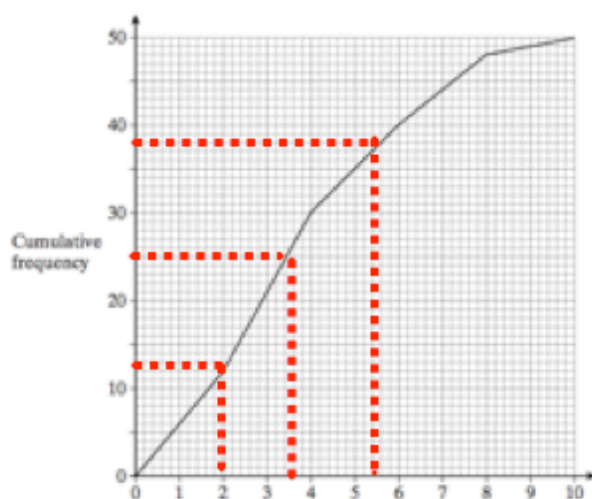
$$0.7 \times 200$$

$$140$$

Hannah invests £300 at 5% for 4 years.

How much is the investment worth after 4 years?

$$£300 \times 1.05^4$$



Estimate the median

around 3.5

Estimate the interquartile range.

around
 $5.4 - 2 = 3.4$

Rationalise the denominator

$$\frac{\sqrt{3}}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{6}}{2}$$

$$x^2 + \frac{1}{2}x^2 - \frac{3}{2}x = 0$$

$$\frac{3}{2}x^2 - \frac{3}{2}x = 0$$

$$x^2 - x = 0$$

$$x(x-1) = 0$$

$$x = 0 \text{ or } x = 1$$

$$y = -1.5 \quad y = -1$$

Solve the simultaneous equations

$$2y - x + 3 = 0$$

$$x^2 + xy = 0$$

$$2y = x - 3$$

$$y = \frac{1}{2}x - \frac{3}{2}$$

$$x^2 + x\left(\frac{1}{2}x - \frac{3}{2}\right) = 0$$