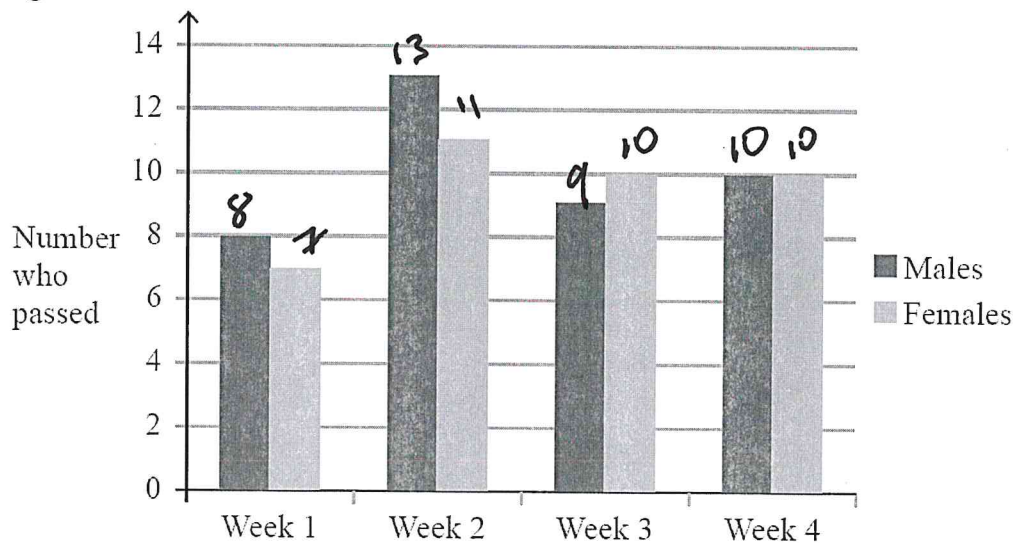


# m2 = 37 days to go!

A driving instructor recorded the number of males and females who passed their driving test.



(a) How many more males than females passed their driving test in Week 2?

$$13 - 11$$

Answer 2 [1]

(b) The driving instructor says "Those who pass their test are more likely to be female than male."

Does the data in the bar chart support this statement?

Give a reason for your answer.

Answer Yes because Week 1 + Week 2 more males passed. Only 1 week did more female pass than male during week 3 [2]

40 males passed  
38 females passed

15 Mr Jackson's car insurance is £840

He can either:

pay the full amount within seven days and receive 5% discount  
or  
pay by direct debit, which will cost 8% more.

The direct debit is paid in 12 equal monthly amounts.

(a) If he chooses direct debit, how much will his monthly payment be?

$$\begin{array}{l} \text{£840 add 8\%} \\ 8\% \text{ of } 840 \text{ is } \text{£}67.20 \end{array} \qquad \begin{array}{l} 1\% \text{ is } \text{£}8.40 \\ 8\% \text{ is } 8.40 \times 8 \\ 67.20 \end{array}$$
$$\text{Total by direct debit } \boxed{\text{£}907.20}$$
$$907.20 \div 12 \text{ months}$$

Answer £ 75.60 [3]

25 (a) The price of a TV is increased by 20%.

In a sale this price is decreased by 20%.

By choosing any starting price for the TV, show that the final sale price is lower than the starting price.

$$\begin{array}{l} \text{Choose } \text{£}400 \\ \begin{array}{l} \text{increase} \\ \text{by} \\ 20\% \end{array} \downarrow \begin{array}{l} 400 + 20\% \\ 400 + 80 \\ 480 \end{array} \\ \hline \text{Now decrease } 480 \text{ by } 20\% \\ 480 - 96 \\ 384 \end{array}$$

[3]