

m2 = 27 days to go!

- 7 (a) Seven factory workers and their manager earn these weekly wages:

~~£294~~, ~~£245~~, ~~£300~~, ~~£288~~, ~~£300~~, ~~£259~~, ~~£290~~ and ~~£850~~

What is the **median** weekly wage?

middle but you must put in order

245 259 288 290 294 300 300 850
both in middle
 Answer £ 292 [2]

- (b) The manager's weekly wage is increased to £900 from £850

Which of these is not affected by the change?

~~range~~ median mean mode

Answer Median and Mode [1]

Range = Biggest - Smallest
900
Mean uses all the values

- 14 John has a telephone with the following costs.

Line rental: £18.99 per month

Call charge: 5.8p per minute

each month

each minute

Last month John made calls lasting 385 minutes.

Work out his telephone bill for last month.

Calls

385 × 5.8 pence

2233 pence

£22.33

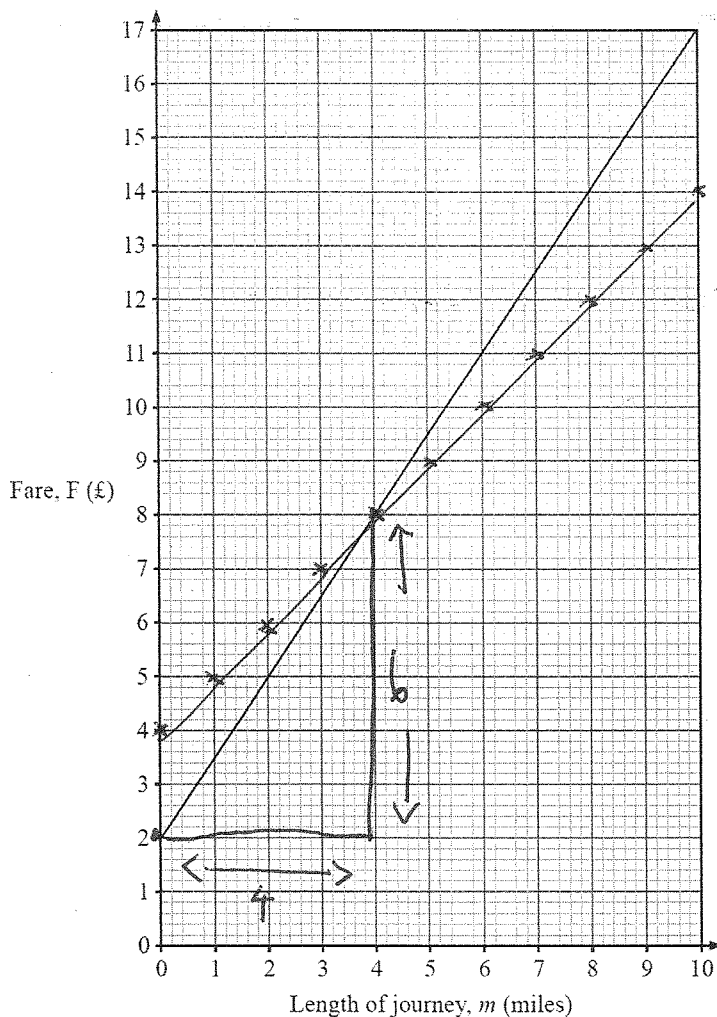
18.99
22.33

41.32

Does This seem sensible for a telephone bill?

Answer £ 41.32 [3]

25 The graph shows the fare, F (£), for a taxi journey of m miles with Trusty Taxis.



$$\text{Gradient} = \frac{\text{rise}}{\text{run}} = \frac{6}{4}$$

(a) Calculate the gradient of the straight line.

Trusty Taxis
 0 miles = £2.00
 1 mile = £3.50
 2 miles = £5.00

Draw a triangle

$$m = \frac{6}{4} = 1.5$$

Answer 1.5 [2]

(b) Give a real life meaning to the value you found in part (a).

Answer Each mile costs £1.50 [1]

(c) Classy Cabs charge a minimum fare of £4 plus £1 for each mile travelled.

Draw a graph for the cost of a taxi journey with Classy Cabs on the same grid as Trusty Taxis. [1]

Classy Cabs

0 miles = £4
 1 mile = £5
 2 miles = £6
 3 miles = £7

(d) Use your graphs to work out the length of the journey that will cost the same with both companies.

Answer 8 miles miles [1]