

Functional Skills: the four operations (L2)

Name _____ Date _____



1. For each journey, a taxi firm charges £2.60 for the first mile of the journey and £1.52 for each extra mile.

(a) Work out how much the taxi firm charges for an 18 mile journey.

£.....

(2)

The taxi firm charged Helen £67.96 for a journey from the airport to her home.

(b) Work out the number of miles from the airport to Helen's home.

.....

(2)

On Christmas Day the taxi firm charges 24% more.

(c) Work out how much the taxi firm charges for a 6 mile journey on Christmas Day.

£

(2)

(Total 6 marks)

2. Simon repairs computers.

He charges

£56.80 for the first hour he works on a computer and

£42.50 for each extra hour's work.

Yesterday Simon repaired a computer and charged a total of £269.30

(a) Work out how many hours Simon worked yesterday on this computer.

.....

(2)

Simon reduces his charges by 5% when he is paid promptly.

He was paid promptly for yesterday's work on the computer.

(b) Work out how much he was paid.

£

(3)

(Total 5 marks)

3. Jenny worked in a bookshop for two weeks.

She is paid £125 per week **plus** 10% of the total value of the books she sells that week.

In the first week, she sold books with a total value of £800.

(a) Work out the total amount she was paid in the first week.

£
(3)

In the second week, Jenny was paid a total of £225

(b) Work out the total value of the books she sold in the second week.

£
(3)
(Total 6 marks)

4. Alison travels by car to her meetings.

Alison's company pays her 32p for each mile she travels.

One day Alison writes down the distance readings from her car.

Start of the day: 2430 miles

End of the day: 2658 miles

(a) Work out how much the company pays Alison for her day's travel.

£.....
(4)

The next day Alison travelled a total of 145 miles.

She travelled $\frac{2}{5}$ of this distance in the morning.

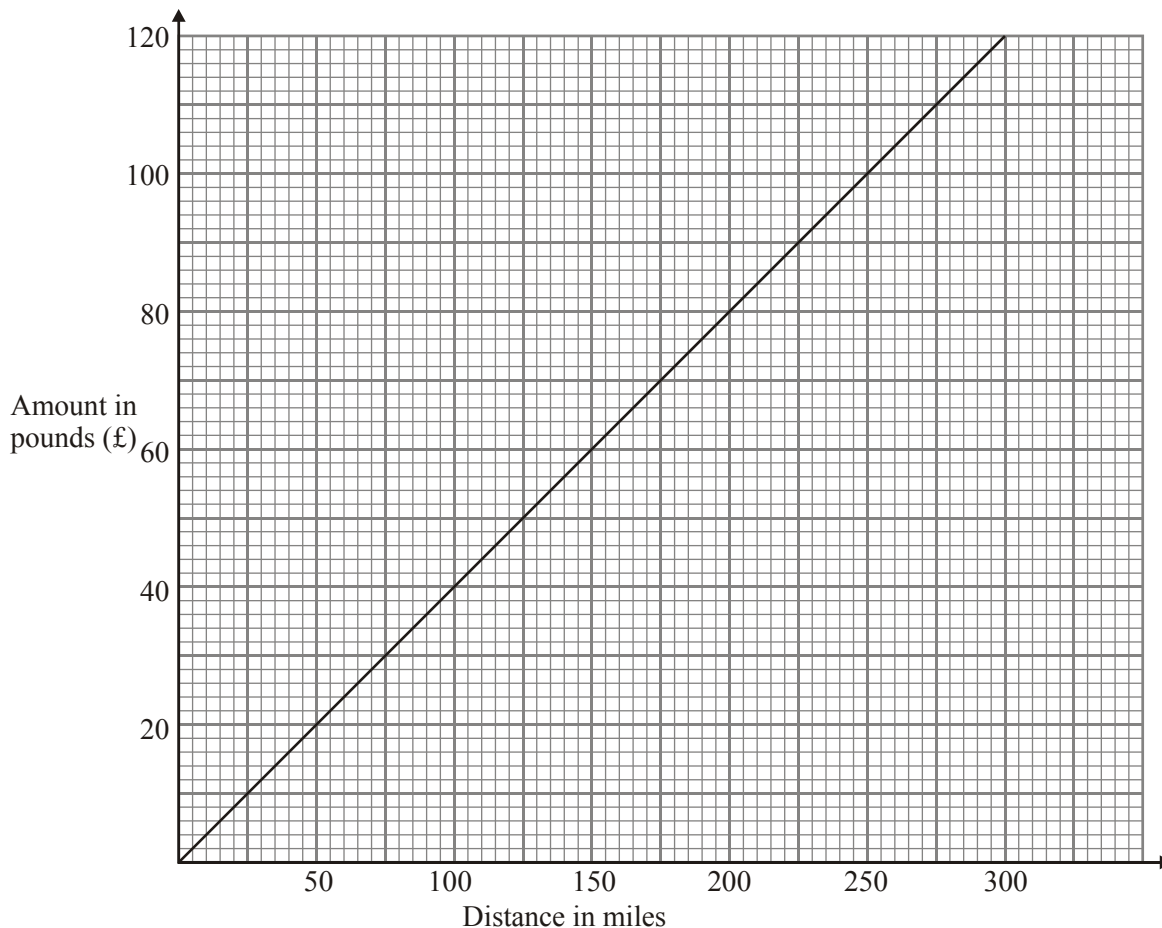
(b) How many miles did she travel during the rest of the day?

.....miles
(3)

Tom also travels by car to his meetings.

Tom's company works out the amount it will pay him for the distance he travels.

It uses the graph below.



(c) Use the graph to write down

(i) the amount Tom's company pays him when he travels 200 miles,

£.....

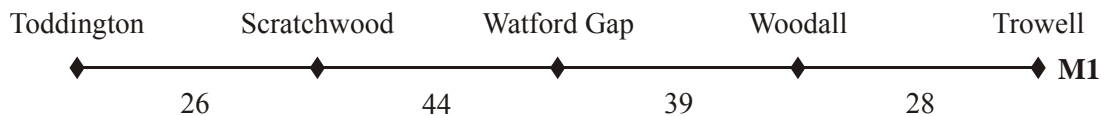
(ii) the distance Tom travels when his company pays him £50.

.....miles

(2)

(Total 9 marks)

5. The diagram shows the distances, in miles, between some service areas on the M1 motorway.



For example, the distance between Toddington and Watford Gap is 70 miles.

Complete the table.

| | | | | |
|------------|-------------|-------------|---------|---------|
| Toddington | | | | |
| 26 | Scratchwood | | | |
| 70 | | Watford Gap | | |
| | 83 | 39 | Woodall | |
| | 111 | | 28 | Trowell |

(Total 3 marks)

6. The table below shows the cost of each of three calculators.

| | |
|---------|-------|
| Compact | £2.30 |
| Studio | £2.15 |
| Basic | £2.80 |

Barbara buys one Studio calculator and one Compact calculator.

She pays with a £10 note.

(a) How much change should she get?

£.....

(4)

Mrs Brown wants to buy some Basic calculators.

She has £60 to spend.

(b) Work out the greatest number of Basic calculators she can buy.

.....

(2)

Mrs Brown gets a 25% reduction if she spends £120 or more.

(c) Work out 25% of £120

£.....

(2)

(Total 8 marks)

1. (a) 28.44 2

$$2.60 + 17 \times 1.52$$

(b) 44 2

$$\begin{aligned} \text{'Extra miles'} &= (67.96 - 2.60) \\ &\div 1.52 (= 43) \\ \text{total number of miles is } &43 + 1 \end{aligned}$$

(c) 12.65 2

$$\begin{aligned} 2.60 + 5 \times 1.52 & (=10.2) \\ \frac{124}{100} \times \text{"10.2"} & \text{ oe} \end{aligned}$$

2. (a) 6 2

$$\begin{aligned} 269.30 - 56.80 &= 212.50 \\ \frac{212.50}{5} &= 42.50 \end{aligned}$$

(b) 255.83 or 255.84 3

5% of £269.30

$$\text{£}269.30 - \text{"£}13.465\text{"}$$

$$\text{OR } \frac{95}{100} \times 269.30$$

3. (a) £800 × 10/100 = £80
£80 + £125
= 205 3

(b) £225 – £125 = £100
£100 is 10% of value of items
Value of items is £100 × 100 ÷
10
= £1000 3

4. (a) 72.96 4

$$2658 - 2430 = 228$$

$$\text{"228"} \times 32$$

(b) 87 3

$$\frac{2}{5} \times 145 = 58$$

$$145 - \text{"58"}$$

(c) (i) 80 2

(ii) 125

5.

| | | |
|-----|----|----|
| | 44 | |
| 109 | | |
| 137 | | 67 |

3

6. (a) 5.55 4

$$\text{£}10 - (\text{£}2.15 + \text{£}2.30)$$

(b) 21 2

$$\text{£}60 \div \text{£}2.80 = 21.42857$$

(c) 30 2

$$120 \times 25 \div 100$$