Chapter 6

Decimals 2

Exercise 1

1. Write down the answers to the following:
   (a) $4.9 \times 10$  
   (b) $7.2 \times 10$  
   (c) $3.18 \times 10$  
   (d) $10 \times 6.54$  
   (e) $10 \times 14.47$  
   (f) $0.24 \times 10$  
   (g) $10 \times 1.009$  
   (h) $0.0567 \times 10$  
   (i) $4.87 \times 100$  
   (j) $3.47 \times 100$  
   (k) $100 \times 5.06$  
   (l) $100 \times 7.9$  
   (m) $3.57 \times 100$  
   (n) $100 \times 1.67$  
   (o) $100 \times 0.0584$  
   (p) $0.0041 \times 100$

2. How many centimetres are there in 4.5 metres?

3. How many millimetres are there in 2.36 centimetres?

4. The cost of a ticket for the circus is £2.75. If there were 100 people at the circus, how much was raised from ticket sales?

5. Ten factory workers each won £200.50 at the bingo. What was the total of their winnings?

Exercise 2

1. Write down the answers to the following:
   (a) $17.5 \div 10$  
   (b) $42.9 \div 10$  
   (c) $547.5 \div 10$  
   (d) $57.82 \div 10$  
   (e) $65.07 \div 10$  
   (f) $9 \div 10$  
   (g) $48.01 \div 10$  
   (h) $0.068 \div 10$  
   (i) $589.2 \div 100$  
   (j) $482.47 \div 100$  
   (k) $12.6 \div 100$  
   (l) $57.08 \div 100$  
   (m) $310 \div 100$  
   (n) $7 \div 100$  
   (o) $1.3 \div 100$  
   (p) $0.7 \div 100$

2. How many metres are equal to 520 centimetres?

3. How many centimetres are equal to 9.5 millimetres?

4. The cost of box of blank CD’s is £12.30. If there are 10 CD’s in the packet, calculate what one CD would have cost.

5. When 100 drawing pins are weighed, their total weight is 59.3 grams. What is the weight of 1 drawing pin?

6. The ten factory workers are back at the bingo. This time, they share a £503 jackpot. How much does each person get?
Exercise 3

1. Copy and complete each calculation:—

(a) \[ 3.7 \times 2 \]
(b) \[ 6.7 \times 3 \]
(c) \[ 13.8 \times 4 \]
(d) \[ 82.7 \times 5 \]

(e) \[ 42.8 \times 6 \]
(f) \[ 41.9 \times 7 \]
(g) \[ 41.7 \times 8 \]
(h) \[ 47.6 \times 9 \]

(i) \[ 3.48 \times 7 \]
(j) \[ 8.53 \times 6 \]
(k) \[ 48.7 \times 4 \]
(l) \[ 3.98 \times 8 \]

(m) \[ 5.39 \times 3 \]
(n) \[ 6.48 \times 5 \]
(o) \[ 54.7 \times 7 \]
(p) \[ 9.48 \times 9 \]

2. Re-write each of these in the form shown in Q1, then do the multiplication:—

(a) \[ 3 \times 9.8 \]
(b) \[ 4 \times 7.9 \]
(c) \[ 5 \times 3.75 \]
(d) \[ 6 \times 4.78 \]

(e) \[ 7 \times 6.93 \]
(f) \[ 8 \times 4.76 \]
(g) \[ 9 \times 6.79 \]
(h) \[ 3.159 \times 7 \]

3. Omar works in a fruit shop on a Saturday.
   If he works 9 hours at £4.95 per hour how much does he get paid?

4. It says on the carton that the moss killer will cover 35.9 m\textsuperscript{2} of pathway.
   What area of pathway can be treated with 6 cartons?

5. What is the cost of 8 identical scientific calculators if one costs £4.85?

6. Mr Lavety hires a chain saw at £7.48 per hour.
   If he keeps it for 5 hours, how much will it cost him?

7. Last autumn, 2.98 centimetres of rain fell every day for a week.
   What total depth of rain fell during this period?

8. A concrete paving slab is 62.5 cm in length.
   What length of pathway will 4 slabs cover?
Exercise 4

1. Copy and complete each calculation :-

   (a) \[ 2 \overline{6.8} \]
   (b) \[ 3 \overline{3.9} \]
   (c) \[ 4 \overline{7.2} \]
   (d) \[ 5 \overline{8.5} \]
   (e) \[ 6 \overline{17.4} \]
   (f) \[ 7 \overline{43.4} \]
   (g) \[ 8 \overline{52.0} \]
   (h) \[ 9 \overline{38.7} \]
   (i) \[ 2 \overline{9.18} \]
   (j) \[ 3 \overline{8.28} \]
   (k) \[ 4 \overline{6.76} \]
   (l) \[ 5 \overline{7.95} \]
   (m) \[ 6 \overline{1.68} \]
   (n) \[ 7 \overline{8.96} \]
   (o) \[ 8 \overline{9.92} \]
   (p) \[ 9 \overline{9.72} \]

2. Re-write each of these in the form shown in Q1, then carry out the division :-

   (a) \[ 7.8 \div 2 \]
   (b) \[ 8.7 \div 3 \]
   (c) \[ 6.8 \div 4 \]
   (d) \[ 48.5 \div 5 \]
   (e) \[ 2.58 \div 6 \]
   (f) \[ 9.66 \div 7 \]
   (g) \[ 9.92 \div 8 \]
   (h) \[ 9.54 \div 9 \]

3. 8 packets of bird seed weigh 2.32 kilograms.
   What is the weight of 1 packet?

4. Six children went to the theatre.
   The tickets cost £11.76 in total.
   What was the cost of 1 ticket?

5. Donald paid £9.45 for 7 ice-creams. What was the cost of one?

6. 9 children decided to split the cost of a pizza.
   If the pizza cost £3.33, how much did each have to pay?

7. Albert is paid £24.75 for 5 hours of collecting trolleys at his local supermarket.
   How much does he earn per hour?

8. To raise money for a new play-chute, the nursery school held a sponsored “silence”.
   All the youngsters had to stay silent for one hour.
   Unfortunately, some of the children started to talk two thirds of the way through.
   For how many minutes had they managed to stay silent?
Exercise 5

1. Simon buys a sweatshirt for £39·95 and a pair of shorts at £15·99.
   What is the total cost?

2. Sarah bought two perfumed candles. One burned for 45·6 minutes.
   The more expensive one lasted 51·3 minutes.
   For how much longer did the more expensive one burn?

3. Joe paid £44·94 for hiring a cement mixer.
   He picked it up from the shop at 10 am and returned it at 4 pm the same day.
   Calculate the cost of hiring a cement mixer for one hour.

4. Stanley also hired a cement mixer. He got his from a different shop.
   He had to pay a £10 deposit plus the hire fee of £3·85 per hour.
   If Stanley had the mixer for 9 hours, how much did it cost him in total?

5. Scott fills his scooter with petrol.
   He puts in 7 litres at a cost of £0·98 per litre.
   How much change does he get from a £10 note?

6. A group of 12 children pay a total of £34·20
   to have a day out at a leisure centre.
   What is the cost of one ticket?

7. Find the total cost (including parking)
   for each of the following groups to visit
   Mr R’s Theme Park:
   (a) 30 adults in a coach.
   (b) 12 children in a minibus.
   (c) 2 adults and 4 children in a car.

8. The times of the five fastest runners at an athletics meeting were:
   29·6 seconds  31·2 seconds  32·3 seconds  32·6 seconds  33·8 seconds.
   Calculate the average time taken by these five runners.
Revision Exercise

1. Set down and work out :-
   (a) $4.57 \times 8$
   (b) $3.84 \times 9$
   (c) $16.94 \div 7$
   (d) $13.14 \div 6$

2. Write down the answers to the following :-
   (a) $9.1 \times 10$
   (b) $54.6 \times 10$
   (c) $8.45 \times 100$
   (d) $7.1 \times 100$
   (e) $65.2 \div 10$
   (f) $7.3 \div 10$
   (g) $439.8 \div 100$
   (h) $52 \div 100$

3. Set these down and work them out :-
   (a) $6 \times 4.7$
   (b) $7 \times 8.4$
   (c) $8 \times 5.9$
   (d) $9 \times 6.85$
   (e) $7.68 \div 6$
   (f) $6.23 \div 7$
   (g) $12.72 \div 8$
   (h) $9.81 \div 9$

4. What is one seventh of £11.06?

5. A group of 8 children and 5 adults are going to play tennis.
   The cost is £2.78 per adult and is half-price for each child.
   Work out the cost for :-
   (a) the adults.
   (b) the children.
   (c) the whole group.

6. Joanne and six of her friends bought an ice-cream each.
   They each also bought chocolate sauce as a topping for their ice-creams.
   The total bill came to £8.75.
   If the cost of an ice-cream without a topping was £1.05, calculate :-
   (a) the cost of the ice-creams for everyone.
   (b) the total cost of the chocolate sauce topping.
   (c) the cost of one portion of chocolate sauce.