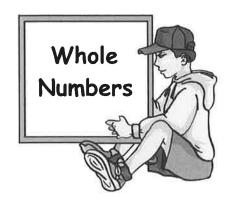
CHAPTER 2

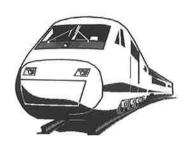


Add, Subtract, Multiply & Divide.





- A train arrives at a station with 236 people on board. 1. At the station 108 people get on and 171 people get off. How many people are on the train now?
 - The next train to arrive at the station has 6 carriages b Each carriage has 123 people. Four hundred and sixteen people get off the train. How many people are now on the train?



- 2. Eve has 6 photo albums. There are 224 photos in each album.
 - How many photos does Eve have in total?
 - **b** Pia has 1561 stamps in her collection. She has seven identical full stamp books. How many stamps are in each book?



- 3.
 - Ь
 - c

How many hours are there in 6300 minutes?

There are 24 hours in a day. How many hours are in one week?

How many minutes are there in 64800 seconds?

Ellis bought the following at the supermarket:-4.

4 kg of potatoes at £1.05/kg, 2 kg of mince at £2.85/kg

1.5 kg of cheese at £2.60/kg 350 g of green beans at 45p/50q.

What was his total bill in the supermarket?



Four packs of sandwiches and five drinks costs £10.60.

If one drink costs 80p, how much is each sandwich?

(Difficult). A Shirt costs £22 and a pair of trousers costs £27. 6. Brad spends £191 on shirts and trousers.

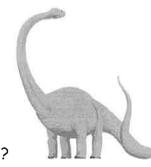
How many shirts and how many trousers did he buy?



Exercise 1b



- 1. Entry to the museum is £7.80 per adult and children enter at half price.
 - a How much would it cost for 6 teachers and 28 pupils?
 A special school rate pass costs £120.
 - b How much of a saving would this be for the group above?



SHELCO

2.



A box of eighteen blank DVD's cost £2.28.

A box of 24 costs £2.85.

Which is the better deal? Explain.

3. Rita buys 40 litres of *Ultimate A* grade petrol costing £59.60.

It costs Reena £84.15 for 55 litres of *Ultimate A* grade petrol.

- a Who found the cheaper petrol station?
- b How much had she saved by not going to the dearer station?
- 4. Ali gets paid a total of £560.25 for 45 hours work. Gene works 37 hours and is paid £624.19.
 - a Calculate how much Ali gets paid per hour.
 - b How much more per hour does Gene earn than Ali?



- 5. Six students are to pay £1860 for a private holiday villa in Spain.
 - a How much will each student have to pay?

 One of the students could not go.

 The group still have to pay £1860.
 - b How much more does each student have to pay?



6. Gary paid a total of £14640 for his new car.

He paid a deposit of three thousand pounds and 24 equal monthly instalments.

- a How much was each instalment?
- b (Difficult). What was each instalment as a percentage of the total cost?



Exercise 2

Mental Exercise



Do each calculation mentally then write down the answer :-1.

Find mentally:-2.

$$j$$
 183 \times 4

$$n = 3015 \div 3$$

Jay buys 6 new cars priced at £11200 each for his sales team. 3. α

How much did the cars cost in total?

Jay pays £2040 insurance per annum for all the cars. Ь

How much is the insurance for each car?

Four of the six cars have a £225.00 alarm fitted. What is the total cost for the alarms?



Exercise 3

Multiples of 10,100, ...



Find without a calculator :-1.

$$\alpha$$
 34 \times 20

j
$$18 \times 4000$$

n 600×300

n

 3105×9000

Find without a calculator :-2.

14600 x 200

- A local football team has a total weekly wage of £8600 for twenty players. 3.
 - If all players receive equal pay, how much does each player earn weekly?
 - Each player carries a £145 insurance policy. Ь

What is the total player insurance cost?

There are 500 tickets in a book, six hundred books in 4. a box and 200 boxes in a crate.

How many tickets are in a crate?

A juggernaut carries a total of one hundred thousand bottles of juice in 10 palettes. Each palette holds 20 containers. Each container holds 50 boxes.

How many bottles are in a box?



Exercise 4

BOMDAS



Use Bomdas to find :-1.

$$a + 2 \times 4$$

$$b = 5 + 2 \times 6$$

a
$$3+2\times4$$
 b $5+2\times6$ **c** $12+10\times4$ **d** $10\times4+5$

i
$$\frac{1}{2}$$
 of 10 + 6

j
$$18 + \frac{1}{2}$$
 of 6

i
$$\frac{1}{2}$$
 of 10 + 6 j 18 + $\frac{1}{2}$ of 6 k 16 - $\frac{1}{3}$ of 15 l half of 20 + 4

$$m 2 \times (5+6)$$

n
$$\frac{1}{8}$$
 of (12 - 4)

m
$$2 \times (5+6)$$
 n $\frac{1}{8}$ of $(12-4)$ o $((6 \div 2)+8) \times 3-(11-3)$.

2. Copy each of the following and insert brackets to make each calculation correct:-

a
$$10 + 5 \times 2 = 30$$

b
$$15 - 6 \times 3 = 27$$
 c $\frac{1}{8}$ of $16 + 32 = 6$

d
$$10 \times 5 - 2 \times 3 = 90$$

d
$$10 \times 5 - 2 \times 3 = 90$$
 e $16 \div 2 + 6 \times 3 = 6$ f $8 + 2 \times 3 - 2 = 10$.

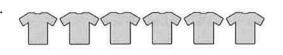
Revisit - Review - Revise Exercise 2a



- Four gas meter readings are found to be :- 2143, 5670, 1098 and 3432 units.
 - What is the total of all four meters?
 - **b** Find the difference between the largest and smallest reading.
- Ryan made £240 profit selling ten T-shirts. 2. How much profit did he make on each T-shirt?



2. b Ashley packs 1420 T-Shirts into packs of 6. How many packs are there and how many T-Shirts will be left?



- 3. Find :
 - a 34 x 20
- b 412 x 500
- 804 x 600
- d 121 x 9000

CINE-TIME PRICES

- e 25000 ÷ 500 f
- 81000 ÷ 90
- **q** 165000 ÷ 3000 **h**

Adult Child

Concession

Family

1260000 ÷ 7000.

£5.60

£3.50

£.2.75

£12.50

 Alice and her two daughters, Ann, aged 5 and Bonnie, buy tickets for the cinema.

Bonnie is a student and gets a concession.

Will they be cheaper with the family deal? Explain.

5.	Calculate	:-

- $a + 7 \times 3$
- b 11 3 x 2
- $c = 20 \div (4 + 1)$
- d $3 \times (2 + 13) \div 5$

Revisit - Review - Revise Exercise 2b



(2 adults + 2 children)

- 1. How many days in total were there in the years 2010, 2011 and 2012?
- 2. I have £5 in 10p and 5p pieces. I have twice as many 10p than 5p pieces. How many 5p pieces do I have?
- 3. A motorcycle can be bought for £11200 cash or by making a 10% deposit, plus thirty six monthly payments of £310.
 - a How much would you save if you paid cash?
 - **b** Explain why most people would not choose cash payment.



- 4. Fifteen thousand sweets are put equally into bags of 34 sweets.
 - a How many bags are needed?
 - b How many sweets are left over?







 4 identical rectangles and 3 identical squares have a total area of 96 cm².

2 rectangles and 1 square have a total area of 42 cm².

Find the area of both a rectangle and a square.

