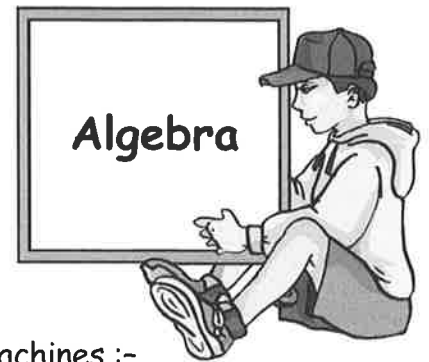
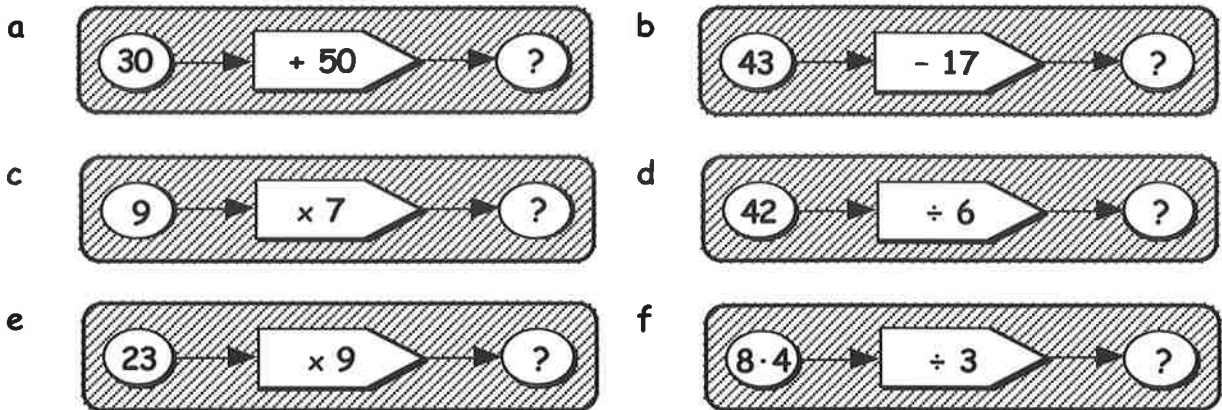


CHAPTER 10

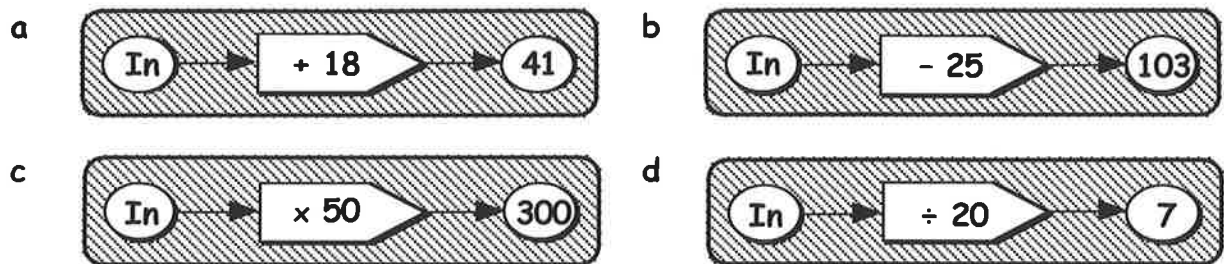


Exercise 1

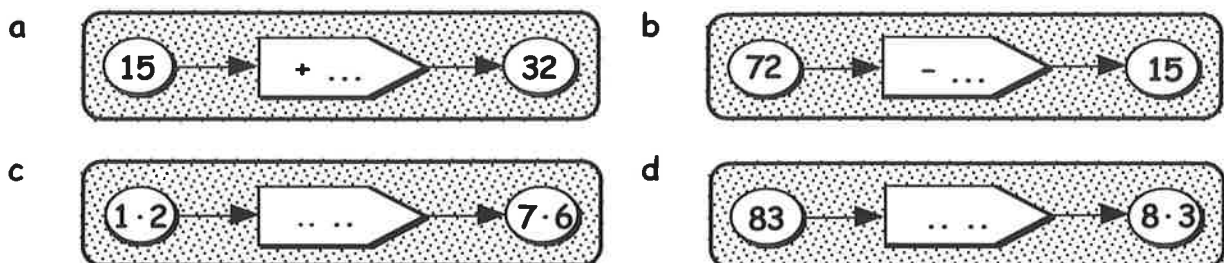
1. Write down what number comes **OUT** of these number machines :-



2. What numbers must have been put **IN** these number machines ?



3. Write down the missing number (and/or sign) in each machine below :-

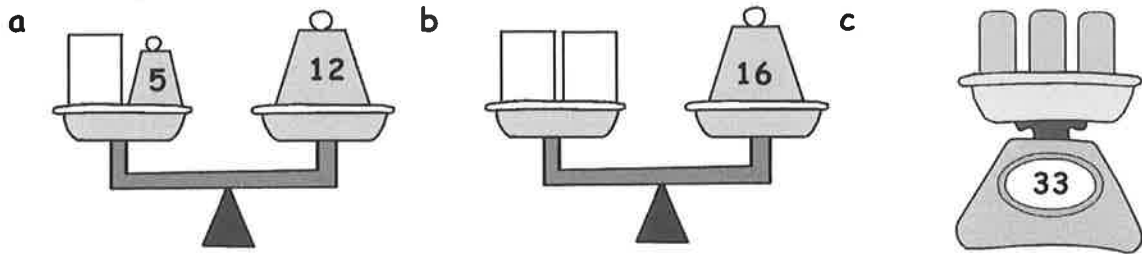


Exercise 2

1. Find the value of * in each of the following :-

- | | | | | | |
|---|-------------------|---|----------------------|---|--------------------|
| a | $7 + * = 16$ | b | $24 - * = 14$ | c | $9 \times * = 81$ |
| d | $54 \div * = 6$ | e | $* - 5 = 12$ | f | $* \times 7 = 56$ |
| g | $* \div 10 = 9.7$ | h | $* \times 100 = 401$ | i | $* \div 100 = 45.$ |

2. Look at the scales shown below and find the weight of a box each time :-



3. For these problems, **make up a statement (equation)** involving +, -, x or ÷ along with a * to stand for the unknown quantity, and find the value of the *.

a When a basket of apples was shared between 7 growers, each got 20.
How many apples were originally in the basket ?



b When a piece of ham and a turkey were weighed, their total weight was 12.5 kg.
If the turkey weighed 5.8 kg, what was the weight of the ham ?



Exercise 3

1. Copy each of the following and find the missing value each time :-

a $d + 9 = 17$

b $m - 6 = 19$

c $6 \times n = 54$

d $\frac{h}{3} = 7$

e $p + 17 = 17$

f $q - 30 = 70$

g $g \times 9 = 45$

h $u \div 10 = 2$

i $1.7 + b = 5.3$

j $35 - c = 6$

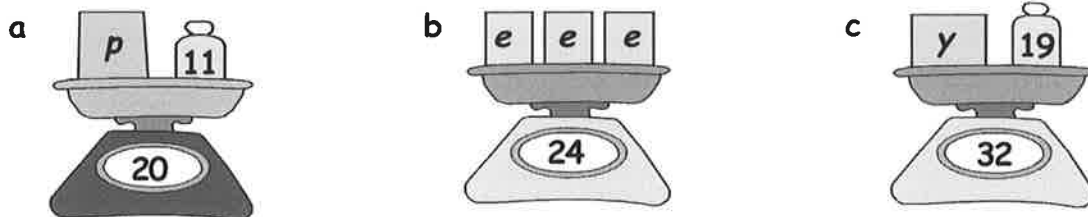
k $8 \times w = 72$

l $63 \div f = 9.$

2. For each of the following :-

(i) make up an equation using the letter shown.

(ii) solve the equation to find the value of the letter.



3. The **total** cost for 6 children on a day out to a theme park was £210.

Make up an equation and solve it to find the cost for each of them.



4. When some rollos are shared equally, Mark, Bob and Alan get 9 each.

Make up an equation and solve it to find how many rollos there were to begin with.

Revision Exercise

1. Copy the following and find what * stands for :-

a $6 + * = 17$
 $* = \dots$

b $19 - * = 4$
 $* = \dots$

c $5 \times * = 45$
 $* = \dots$

2. What number does  stand for each time here :-

a $7 + \text{circle with dots} = 23$

b $\text{circle with dots} \times 4 = 28$

c $\frac{\text{circle with dots}}{5} = 8$

d $\text{circle with dots} - 15 = 15$

e $\frac{36}{\text{circle with dots}} = 4$

f $27 \times \text{circle with dots} = 0$

g $\frac{\text{circle with dots}}{4} = 2.5$

h $\text{circle with dots} + 1.1 = 11$

i $\text{circle with dots} - 120 = 0.$

3. In each of the following, the symbol \square stands for +, -, \times or \div .

Decide which symbol is needed each time here :-

a $9 \square 3 = 6$

b $6 \square 5 = 30$

c $21 \square 3 = 7$

d $18 \square 6 = 12$

e $72 \square 8 = 9$

f $23 \square 5 = 115$

g $6.1 \square 6.1 = 1$

h $3.9 \square 2.7 = 6.6$

i $135 \square 90 = 45.$

4. Solve the following equations (find the value of the letter) :-

a $x + 3 = 23$

b $a - 7 = 34$

c $6 \times d = 42$

d $\frac{h}{8} = 8$

e $r - 30 = 30$

f $63 \div g = 7.$

5. Tinkie weighs 13 pounds and Dinkie weighs * pounds.

Their combined weight is 31 pounds.

a Make up an **equation** using *.

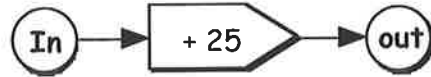
b Solve it to find Dinkie's weight.



6.



Machine A



Machine B

a What number comes out when :-

(i) 20 is put into machine A

(ii) 35 is put into machine B ?

b What number has gone in when :-

(i) 1.5 comes out of machine A

(ii) 1000 comes out of machine B ?