## Exercise 1



1. Each of these squares has been divided into 100 "bits".

Write down what each shaded region is, as a percentage of the whole square :-


Dark shading : 40\% Light shading : ...\% White : ....\%
(b)


Dark shading : ...\%
Light shading : ...\%
White : .... \%
(c)


Dark shading :
Light shading
White :

Remember:

$$
47 \% \text { means } \frac{47}{100}=47 \div 100=0.47
$$

2. Write each of the following as a fraction :-
(a) $41 \%$
(b) $67 \%$
(c) $89 \%$
(d) $99 \%$
(e) $11 \%$
(f) $21 \%$
(g) $2 \%$
(h) $7 \%$
(i) $9 \%$
(j) $51 \%$
(k) $1 \%$
(l) $100 \%$
3. Write each of the following as a decimal :-
(a) $43 \%$
(b) $65 \%$
(c) $93 \%$
(d) $12 \%$
(e) $49 \%$
(f) $99 \%$
(g) $31 \%$
(h) $9 \%$
(i) $4 \%$
(j) $20 \%$
(k) $1 \%$
(I) $100 \%$
4. Write each of the following as a fraction and as decimal :-
(a) $23 \%$
(b) $77 \%$
(c) $13 \%$
(d) $40 \%$
(e) $98 \%$
(f) $15 \%$
(g) $6 \%$
(h) $30 \%$
(i) $17 \%$
(j) $2 \%$
(k) $8 \%$
(I) $81 \%$
5. Write each fraction or decimal as a percentage :
(a) $\frac{23}{100}$
(b) $\frac{83}{100}$
(c) $\frac{10}{100}$
(d) 0.76
(e) 0.61
(f) 0.06
(g) 0.26
(h) $\frac{90}{100}$
(i) 0.01
(j) $\frac{50}{100}$
(k) 0.5
(I) $\frac{10}{200}$

## Exercise 2

1. Copy and complete each of the following :-
(a) $\frac{9}{25}=9 \div 25=0 \cdot \ldots=\ldots . . \%$
(b) $\frac{18}{75}=18 \div \ldots=0 . \ldots=\ldots \%$
2. Change each of the fractions shown to a decimal then to a percentage :-
(a) $\frac{3}{20}$
(b) $\frac{11}{25}$
(c) $\frac{16}{40}$
(d) $\frac{25}{50}$
(e) $\frac{1}{50}$
(f) $\frac{30}{30}$
3. Carefully, change each of these fractions to percentages :-

Remember : $0.1=10 \%$
(a) $\frac{15}{25}$
(b) $\frac{24}{40}$
(c) $\frac{3}{10}$
(d) $\frac{24}{60}$
(e) $\frac{9}{15}$
(f) $\frac{30}{600}$
4. Kirsty scored $\frac{48}{60}$ in a Maths test.

Change her score to a percentage.
5. Hannah scored $\frac{45}{60}$ in her English test and $\frac{19}{25}$ in her French test.

In which subject did Hannah perform better?
(Explain your answer).


## Exercise 3 Remember :-

$$
50 \%=\frac{50}{100}=\frac{1}{2}
$$

$$
25 \%=\frac{25}{100}=\frac{1}{4}
$$

$$
10 \%=\frac{10}{100}=\frac{1}{10}
$$

1. Calculate each of the following :-
(a) $50 \%$ of $£ 30$
(b) $25 \%$ of 24 kg
(c) $10 \%$ of 60 m
(d) $25 \%$ of $€ 16$
(e) $10 \%$ of 200 ml
(f) $50 \%$ of 300 km
(g) $10 \%$ of $£ 5$
(h) $50 \%$ of 1 cm
(i) $25 \%$ of $£ 2$
2. (a) Harriet had $£ 70$. She spent $50 \%$ of her money on a new dress. How much did Harriet spend on her dress ?
(b) Ben weighed 60 kilograms. He dieted and lost $10 \%$ of his weight.

How many kilograms did he lose?

3. A shop is giving $25 \%$ off a watch which usually costs $£ 120$. How much would it now cost for the watch?


## Revision Exercise

1. Write down what each shaded part is as a percentage of the whole square :-
(a)

(b)

(c)

2. Write each of the following as a fraction :-
(a) $19 \%$
(b) $81 \%$
(c) $50 \%$
(d) $22 \%$
(e) $8 \%$
(f) $2 \%$
3. Write each of the following as a decimal :-
(a) $21 \%$
(b) $89 \%$
(c) $99 \%$
(d) $60 \%$
(e) $4 \%$
(f) $1 \%$
4. Write each of the following as a fraction and as a decimal :-
(a) $91 \%$
(b) $27 \%$
(c) $50 \%$
(d) $25 \%$
(e) $9 \%$
(f) $7 \%$
5. Write each fraction or decimal as a percentage :-
(a) $\frac{73}{100}$
(b) 0.87
(c) $\frac{42}{100}$
(d) 0.03
(e) $\frac{5}{100}$
(f) 0.4
6. Find:-
(a) $50 \%$ of 64 kg
(b) $10 \%$ of 70 yen
(c) $25 \%$ of $32 p$
7. (a) Zak drank $50 \%$ of his 200 millilitre bottle of coke.

How many millilitres did Zak drink?
(b)


Colin had 60 marbles in his collection. He lost $10 \%$ of his collection in one game!
How many marbles did Colin lose?
(c) Mr Schmidt had $£ 50$ in his bank. He withdrew $25 \%$ of her money.
How much money did he withdraw?


