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Homework for Level D book

Ch 13 - Percentages



Exercise 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 :-

	(a)		(b)		(c)	
	Dark shadii Light shadi White	ng : 40% ng :% :%	Dark sha Light sha White	ding :% ding :% :%	Dark sh Light sh White	ading : ading : :
Remer	mber: 47%	means <u>47</u> 100 =	47 ÷ 100 = 0	• 47 3% m	$ans \frac{3}{100} = 3$	÷ 100 = 0 · 03
2.	Write each o	f the followin	g as a fracti	on :-		
	(a) 41%	(b) 67%	(c) 89%	(d) 99%	(e) 11%	(f) 21%
	(g) 2%	(h) 7%	(i) 9%	(j) 51%	(k) 1%	(I) 100%
3.	Write each o	f the followin	g as a decim o	al :-		
	(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 a decimal :-					
	(a) 23%	(b) 77%	(c) 13%	(d) 40%	(e) 98%	(f) 15%
	(g) 6%	(h) 30%	(i) 17%	(j) 2%	(k) 8%	(l) 81%
5.	Write each fraction or decimal as a percentage :					
	(a) <u>23</u> 100	(b) <u>83</u> 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) <u>50</u> 100	(k) 0·5	(I) $\frac{10}{200}$

2.

(a) $\frac{3}{20}$ (b) $\frac{11}{25}$ (c) $\frac{16}{40}$ (d) $\frac{25}{50}$ (e) $\frac{1}{50}$ (f) $\frac{30}{30}$

(a) $\frac{9}{25} = 9 \div 25 = 0 \cdot \dots = \dots \%$ (b) $\frac{18}{75} = 18 \div \dots = 0 \cdot \dots = \dots \%$

3. **Carefully**, change each of these Remember : 0 · 1 = 10% fractions to percentages :-(a) $\frac{15}{25}$ (b) $\frac{24}{40}$ (c) $\frac{3}{10}$ (d) $\frac{24}{60}$ (e) $\frac{9}{15}$ (f) $\frac{30}{600}$

Copy and complete each of the following :-

Kirsty scored $\frac{48}{60}$ in a Maths test. 4. Change her score to a percentage.

Hannah scored $\frac{45}{60}$ in her English test and $\frac{19}{25}$ in her French test. 5. In which subject did Hannah perform better ? (Explain your answer).

Exercise 3 Remember :-

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

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

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

- Calculate each of the following :-1.
 - (a) 50% of £30 (b) 25% of 24 kg (d) 25% of € 16
 - (e) 10% of 200 ml
 - (g) 10% of £5 (h) 50% of 1 cm



- (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?

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(c) 10% of 60 m

(i) 25% of £2

(f) 50% of 300 km





- Change each of the fractions shown to a decimal then to a percentage :-

Exercise 2

1.

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Revision Exercise



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



How many millilitres did Zak drink?



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 ?

