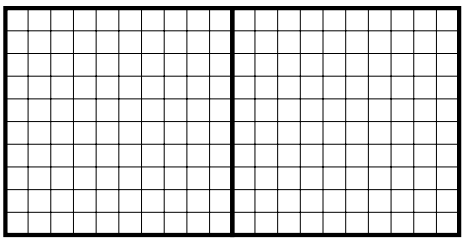
F = fraction, D = decimal, P = percentage, R = ratio*

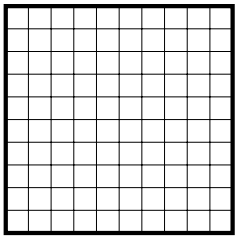
1. (i) Shade in 153% in the diagram below.



(ii) Write 153% as a decimal . . . . . .

(iii) Complete this table.

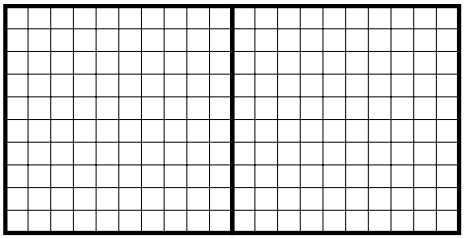
Key



	1	$\frac{1}{10}$	$\frac{1}{100}$
Fraction	1	$\frac{1}{10}$	$\frac{1}{100}$
Decimal	1	0.1	0.01
Percentage	100%	10%	1%

Amount shaded	Improper fraction shaded	Proper fraction shaded
153%	$\frac{\quad}{100}$	$1\ \frac{\quad}{100}$

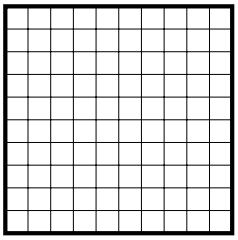
2 (i) Shade in $1 + \frac{3}{100}$ in the diagram below



(ii) Write $1 + \frac{3}{100}$ as a decimal . . . . . .

(iii) Write $1 + \frac{3}{100}$ as a percentage . . . . . .

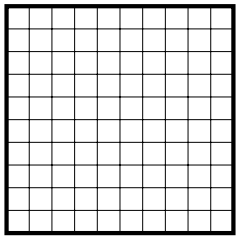
3 (i) Shade in 9% in the diagram below



(ii) Write 9% as a decimal . . . . . .

(iii) Write 9% as a fraction . . . . . .

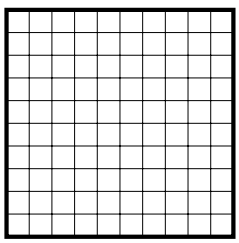
4 (i) Shade in $\frac{7}{10} + \frac{3}{100}$ in the diagram below



(ii) Write $\frac{7}{10} + \frac{3}{100}$ as a decimal . . . . . .

(iii) Write $\frac{7}{10} + \frac{3}{100}$ as a percentage . . . . . .

5 (i) Shade in 0.7 in this diagram

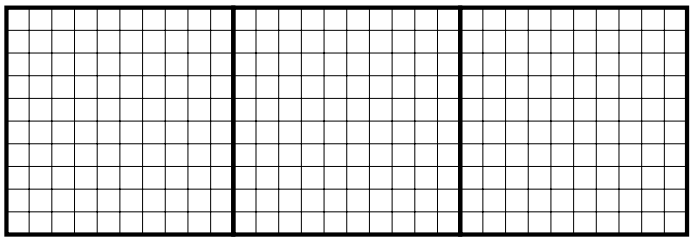


(ii) Write 0.7 as a fraction . . . . . .

(iii) Write 0.7 as a percentage . . . . . .

Turn over for more questions & ans

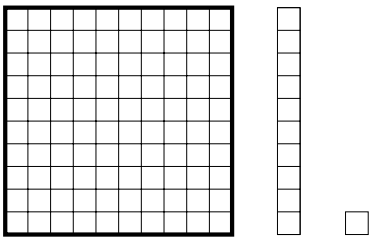
6. (a) (i) Shade in 2 + 0.5 + 0.09 in the diagram below.



(ii) Write 2 + 0.5 + 0.09 as a decimal . . . . . .

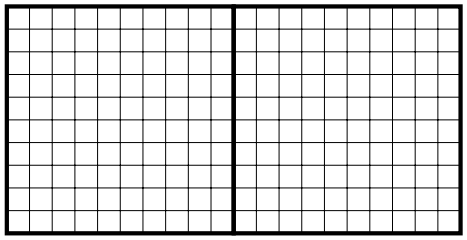
(iii) Write 2 + 0.5 + 0.09 as a percentage . . . . . .

Key



Fraction	1	$\frac{1}{10}$	$\frac{1}{100}$
Decimal	1	0.1	0.01
Percentage	100%	10%	1%

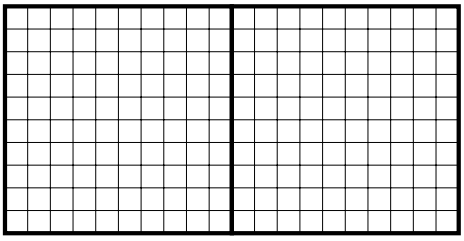
7 (i) Shade in $1 + \frac{3}{10} + \frac{7}{100}$ in this diagram



(ii) Write $1 + \frac{3}{10} + \frac{7}{100}$ as a decimal . . . . . .

(iii) Write $1 + \frac{3}{10} + \frac{7}{100}$ as a percentage . . . . . .

8 (i) Shade in 173% in this diagram



(ii) Write 173% as a decimal . . . . . .

9. Use your answers from questions 6 to 8 to complete this table.

Use question	Amount shaded	Improper fraction shaded	Proper fraction shaded
6 for diagram	2 + 0.5 + 0.09	$\frac{\quad}{100}$	$2\ \frac{\quad}{100}$
7 for diagram	$1 + \frac{3}{10} + \frac{7}{100}$	$\frac{\quad}{100}$	$1\ \frac{\quad}{100}$
8 for diagram	173%	$\frac{\quad}{100}$	$1\ \frac{\quad}{100}$

Answers 1. (i) 153 small squares shaded (ii) 1.53 (iii) $\frac{153}{100}$ and $1\frac{53}{100}$ 2. (ii) 1.03 (iii) 103%

3. (ii) 0.09 (iii) $\frac{9}{100}$ 4. (ii) 0.73 (iii) 73% 5. (ii) $\frac{70}{100}$ or $\frac{7}{10}$ (iii) 70%

6. (ii) 2.59 (iii) 259% 7. (ii) 1.37 (iii) 137% 8. (ii) 1.73

9.	$\frac{259}{100}$ and $2\frac{59}{100}$	$\frac{137}{100}$ and $1\frac{37}{100}$	$\frac{173}{100}$ and $1\frac{73}{100}$