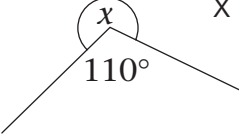
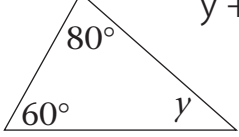
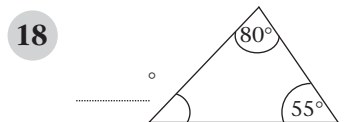
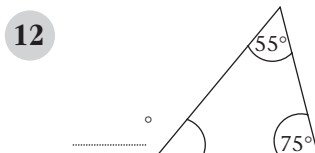
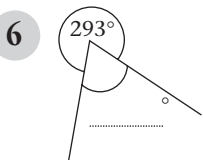
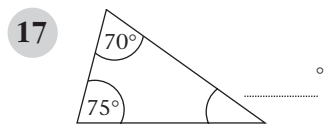
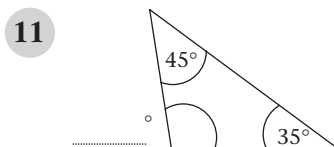
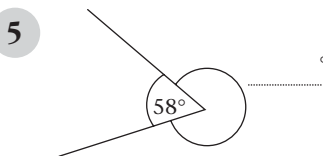
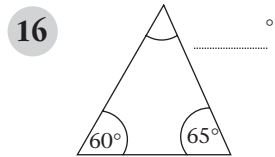
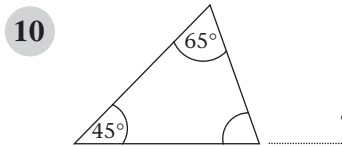
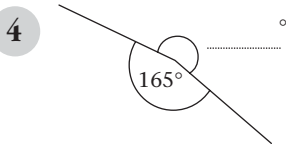
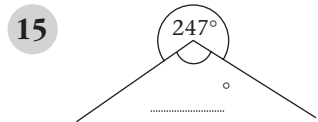
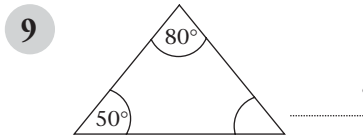
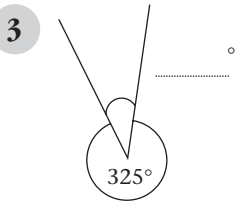
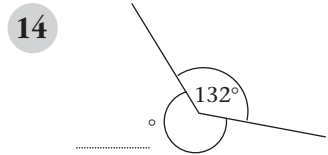
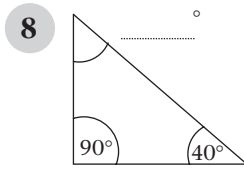
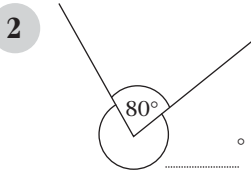
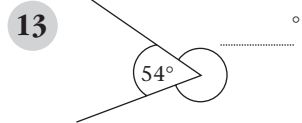
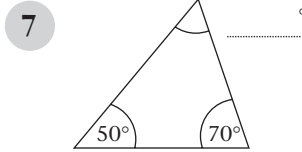
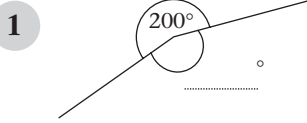


Sheet 34

Missing Angles

Examples		$x + 110^\circ = 360^\circ$ $x = 250^\circ$		$y + 60^\circ + 80^\circ = 180^\circ$ $y + 140^\circ = 180^\circ$ $y = 40^\circ$

Write the missing angle on the line.



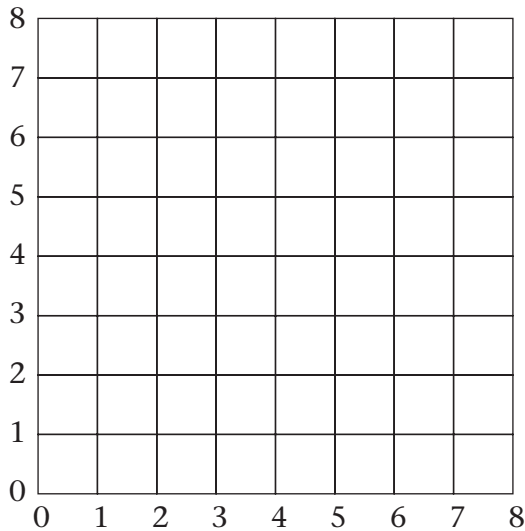
Sheet 35

Co-ordinates

Plot the co-ordinates in the given order to form two sides of a square or rectangle. Complete the shape and write the missing co-ordinate.

1 (2,6) (8,6) (8,3) ()

4 (5,4) (4,1) (1,2) ()



2 (4,0) (8,4) (4,8) ()

5 (7,4) (5,7) (2,5) ()

3 (1,5) (5,7) (6,5) ()

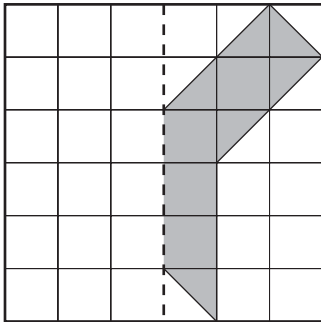
6 (3,0) (1,6) (4,7) ()

Sheet 36

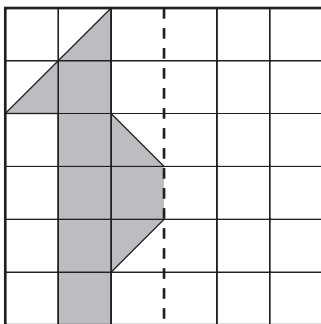
Reflections, Rotations, Translations

Draw the reflection of each shape in the mirror line.

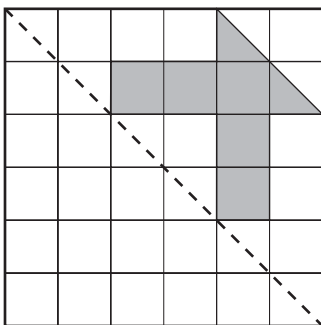
1



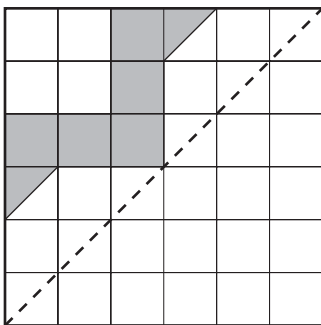
2



3



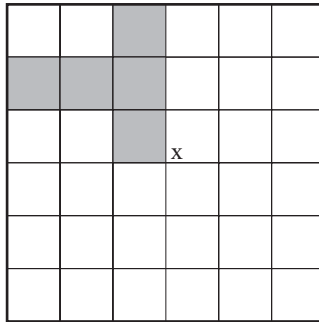
4



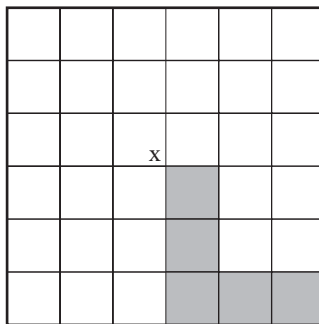
Rotate each shape:

- a) 90° clockwise about X
- b) 180° about X

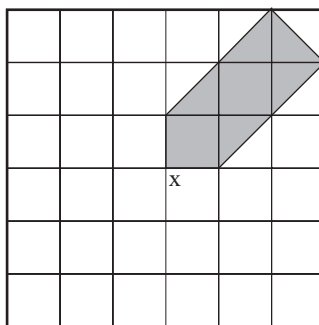
5



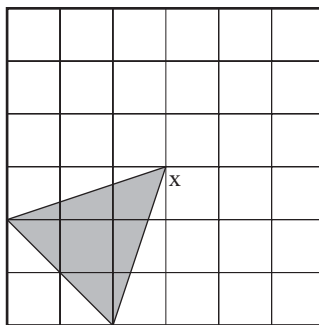
6



7

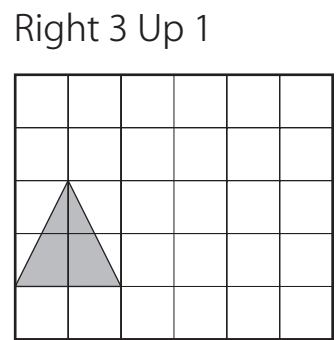


8

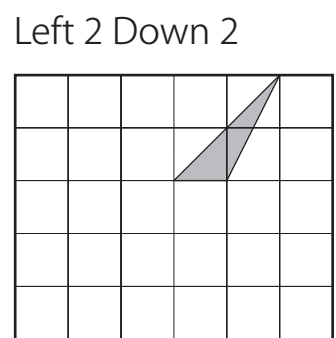


Translate each shaded shape the number of squares shown.

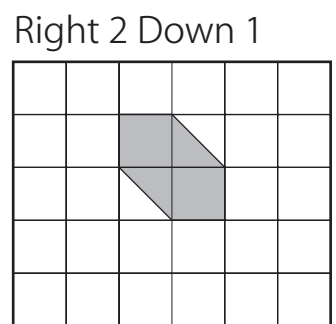
9



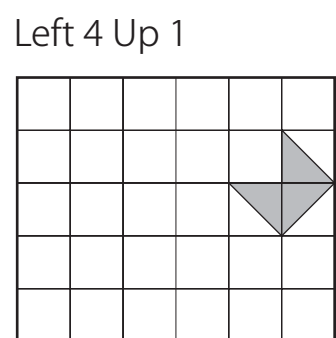
10



11



12



Sheet 37

Fractions

Examples	How many times larger is 20 than 6?	Cancel $\frac{12}{20}$
	$20 \div 6 = 3 \frac{2}{6} = 3 \frac{1}{3}$	$\frac{12}{20} \div 4 = \frac{3}{5}$ $\frac{12}{20} = \frac{3}{5}$
	20 is $3 \frac{1}{3}$ times larger than 6.	

How many times larger is:

- | | | | | | |
|---|---------------------|-------|----|------------------------|-------|
| 1 | 75 than 10 | ..... | 7 | 1 kg than 80 g | ..... |
| 2 | 46 than 8 | ..... | 8 | 1 km than 600 m | ..... |
| 3 | 70 than 30 | ..... | 9 | 1 m than 40 cm | ..... |
| 4 | 670 than 100 | ..... | 10 | £1 than 15p | ..... |
| 5 | £24 than £5 | ..... | 11 | 1 week than 2 day | ..... |
| 6 | 1 litre than 300 ml | ..... | 12 | 1 hour than 25 minutes | ..... |

Cancel each fraction into its simplest form.

- | | | | | | | | | | |
|----|----------------------------|----|----------------|----|------------------|----|------------------|----|-----------------|
| 13 | $\frac{4}{10} \frac{2}{5}$ | 16 | $\frac{3}{15}$ | 19 | $\frac{4}{12}$ | 22 | $\frac{15}{18}$ | 25 | $\frac{10}{16}$ |
| 14 | $\frac{2}{6}$ | 17 | $\frac{6}{9}$ | 20 | $\frac{75}{100}$ | 23 | $\frac{45}{100}$ | 26 | $\frac{2}{12}$ |
| 15 | $\frac{6}{8}$ | 18 | $\frac{5}{20}$ | 21 | $\frac{8}{10}$ | 24 | $\frac{3}{12}$ | 27 | $\frac{24}{30}$ |

Find a number which lies between each pair of numbers.

- | | | | | | |
|----|----------------------------------|-------|----|---------------------------------|-------|
| 28 | $\frac{2}{5}$ and $\frac{3}{5}$ | ..... | 32 | $\frac{1}{4}$ and $\frac{1}{6}$ | ..... |
| 29 | 1 and $\frac{3}{4}$ | ..... | 33 | $\frac{9}{10}$ and 1 | ..... |
| 30 | $\frac{7}{10}$ and $\frac{4}{5}$ | ..... | 34 | $\frac{1}{2}$ and $\frac{3}{8}$ | ..... |
| 31 | $\frac{1}{3}$ and $\frac{1}{4}$ | ..... | 35 | $\frac{7}{8}$ and $\frac{7}{9}$ | ..... |

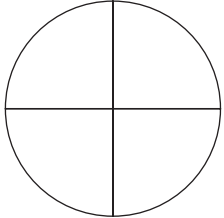
Arrange each group of fractions in ascending order.

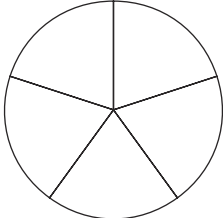
- | | | |
|----|---|-------|
| 36 | $\frac{1}{3}, \frac{2}{5}, \frac{4}{15}$ | ..... |
| 37 | $\frac{7}{12}, \frac{2}{3}, \frac{1}{2}$ | ..... |
| 38 | $\frac{4}{5}, \frac{17}{20}, \frac{3}{4}$ | ..... |
| 39 | $\frac{5}{8}, \frac{3}{4}, \frac{11}{16}$ | ..... |

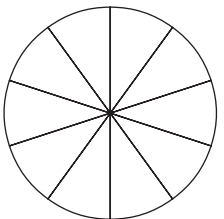
Sheet 38

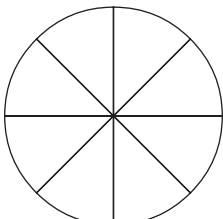
Fractions, Decimals, Percentages

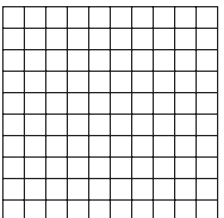
Colour in the fraction shown. Fill in the boxes.

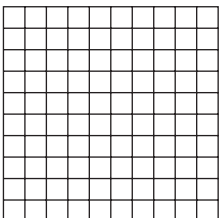
1 $\frac{2}{4}$  $0.$
 %

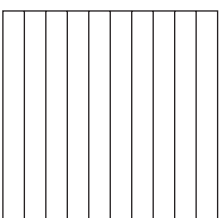
5 $\frac{\quad}{\quad}$  $0.$
 60 %

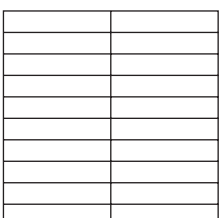
2 $\frac{\quad}{\quad}$  $0.$
 90 %

6 $\frac{\quad}{\quad}$  0.75
 %

3 $\frac{\quad}{\quad}$  $0.$
 36 %

7 $\frac{\quad}{\quad}$  $0.$
 9 %

4 $\frac{7}{10}$  $0.$
 %

8 $\frac{\quad}{\quad}$  0.85
 %

9 Complete the table.

Fractions	$\frac{1}{2}$						$\frac{1}{4}$	$\frac{3}{10}$	$\frac{4}{5}$
Decimals	0.5			0.03	0.72	0.4			
Percentages	50%	17%	90%						

10 What percentage of the boxes contain :

- a) ticks %
- b) crosses %
- c) circles %

	✓	○	○	×		○	✓
○		○	✓		✓	○	
	○		○	×			○
✓	×	○		✓	○	○	
○		✓	○	○	✓	×	○