

# Practice Worksheet

## Mathematics 5

### 12- and 24-hour clock

Write each time as 24-hour digital time.

1



4



7



2



5



8



3



6



9



Write each time as 12-hour digital time, using am and pm.

10 06:35

12 21:22

14 19:43

11 14:20

13 11:09

15 22:47

Write each time as 24-hour digital time.

16 quarter past 6  
in the evening

18 ten minutes to 7  
in the morning

20 five minutes  
to midnight

17 quarter past 9  
in the morning

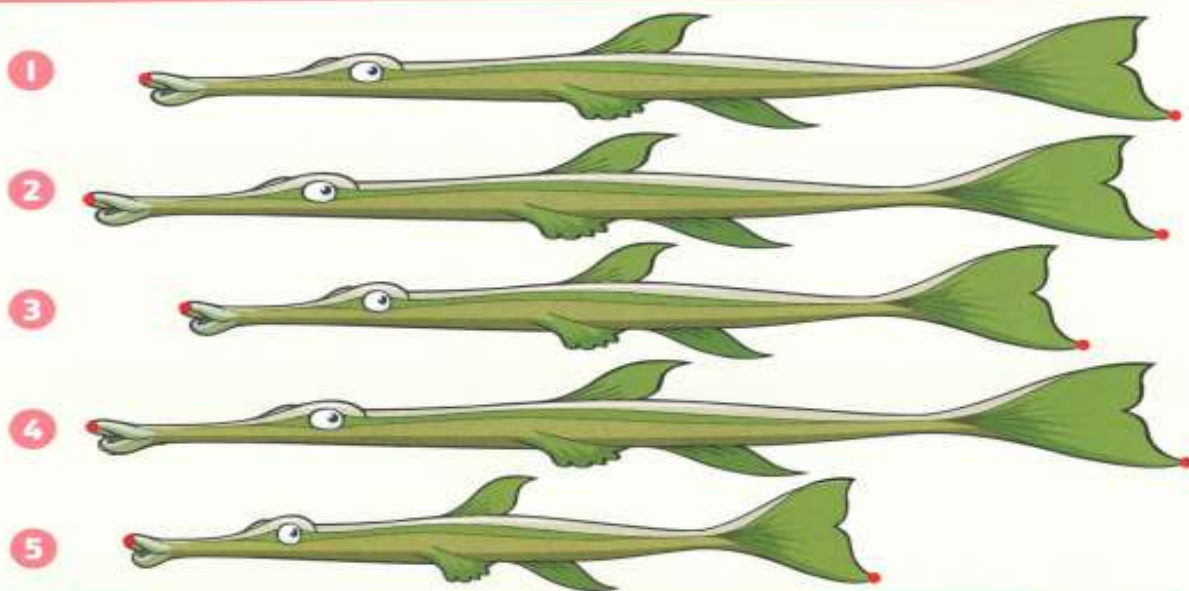
19 eight minutes  
past noon

21 twenty minutes  
to 4 in the  
afternoon



I am confident with 12- and 24-hour clock times.

Measure each creature and write the length in millimetres and then in centimetres.



Write each height in centimetres.



6 1250 mm



7 1370 mm



8 1955 mm

Write each length in millimetres.



9 274 cm



10 75.5 cm



11 240 cm

 I am confident with measuring in centimetres and millimetres and converting between units.

Measure the perimeter of each rectangle in centimetres. Then write it in metres.

1



2

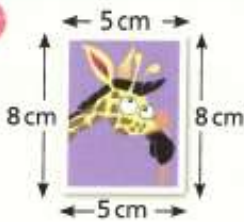


3



Calculate the perimeter of each photo and write it in centimetres and then in metres.

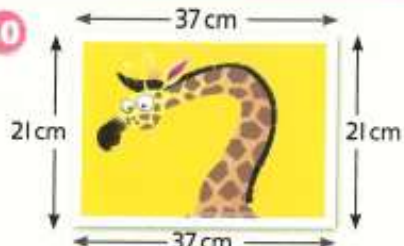
4



7



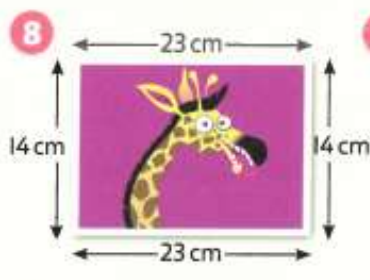
10



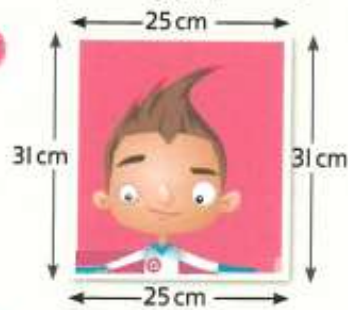
5



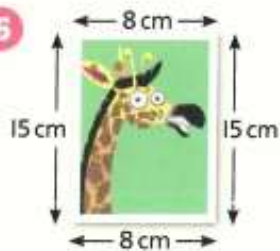
8



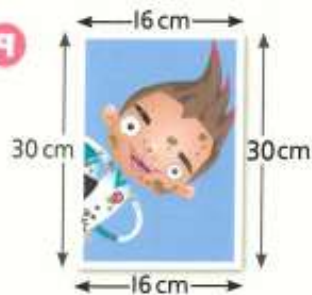
11



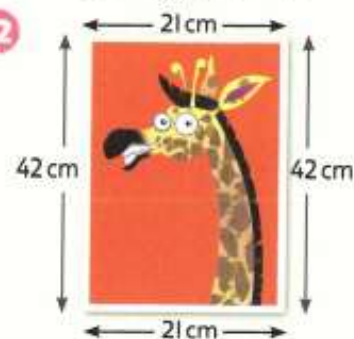
6



9



12

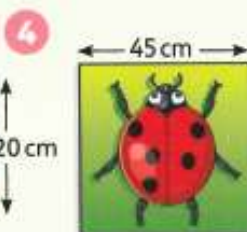
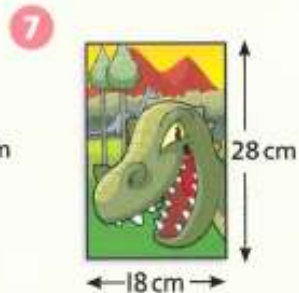


Draw a rectangle with a perimeter of 28 cm.



I am confident with measuring and finding perimeters and converting centimetres into metres.

Calculate the perimeter of each poster. Write your answer in metres.



Write, in centimetres, the perimeter of the following.

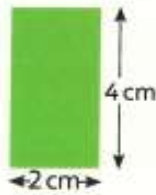
- 9 A rectangle measuring 7 cm by 6 cm.
- 10 A rectangle measuring 6.5 cm by 3.5 cm.
- 11 A square with a side of 8 cm.
- 12 A square with a side of 4.25 cm.
- 13 An equilateral triangle with a side of 3.6 cm.



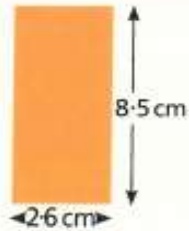
The perimeter of a rectangle is 36 cm. Investigate what length sides the rectangle could have.

Write the perimeter of each shape in centimetres.  
Then write it in metres.

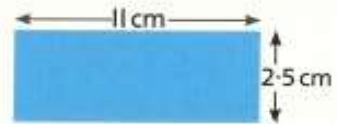
1



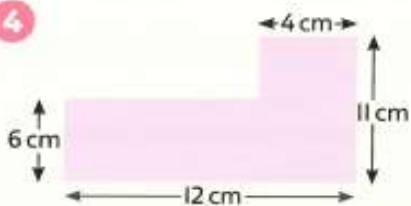
2



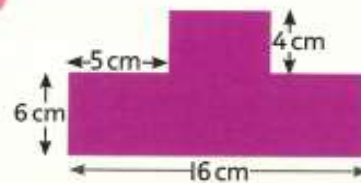
3



4



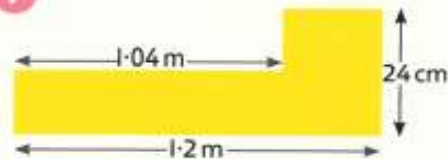
5



6



7



Write the perimeter of these regular polygons  
in centimetres and in metres.

8



9



10



Draw a regular 5-sided polygon  
where the perimeter is 27.5 cm.



I am confident with measuring perimeters and  
converting centimetres into metres.

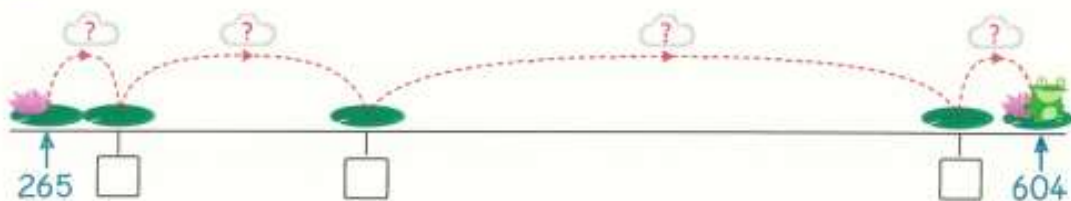
# Subtracting 3- and 4-digit numbers by counting up

Complete each subtraction by counting up.

1  $803 - 657 = \square$



2  $604 - 265 = \square$



3  $305 - 172 = \square$

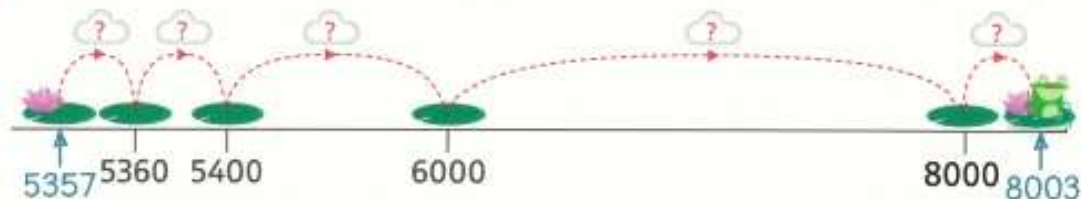
5  $904 - 568 = \square$

4  $702 - 343 = \square$

6  $703 - 474 = \square$

Count up for these 4-digit subtractions.

7  $8003 - 5357 = \square$



8  $4003 - 1748 = \square$

10  $8010 - 4512 = \square$

9  $3004 - 1367 = \square$

11  $7007 - 2324 = \square$

 I am confident with subtracting 3- and 4-digit numbers using the mental method of counting up.

# Multiples and factors



The animals are going to the wildlife park. Can they be paired exactly in 2s? Write yes or no for each animal.

- |                 |                |                  |
|-----------------|----------------|------------------|
| 1 47 giraffes   | 6 56 horses    | 11 84 zebras     |
| 2 138 lions     | 7 249 tigers   | 12 54 elephants  |
| 3 427 llamas    | 8 109 monkeys  | 13 386 emus      |
| 4 245 kangaroos | 9 1008 buffalo | 14 478 snakes    |
| 5 97 rhinos     | 10 164 hippos  | 15 300 ostriches |



The bank has bags of coins of the same type. For each bag write whether they could contain all 2p coins, all 5p coins or all 10p coins.

16		20		24	
17		21		25	
18		22		26	
19		23		27	



I am confident with identifying multiples of 2, 5 and 10.

**Leap years are divisible by 4. Which of these are leap years? Write yes or no for each year.**

1 2008

5 4048

9 2024

2 1394

6 1708

10 1275

3 1994

7 866

11 1943

4 1942

8 1582

12 2070

**13 Copy and complete this table.**

Number	Divisible by:			
	2	5	9	4
76	✓	x	x	✓
85				
142				
2136				
3024				
8005				
790				
4122				



A test for divisibility by 4 is to halve the number and see if the result is an even number.

Can you create a similar test for divisibility by 8? Show how this test works giving numbers that are and are not divisible by 8.

 **I am confident with identifying multiples of 2, 4, 5 and 9.**

**Find different factor pairs for these numbers.**

1

36

$$\square \times \square = 36$$

$$\square \times \square = 36$$

$$\square \times \square = 36$$

$$\square \times \square = 36$$

$$\square \times \square = 36$$

3

42

$$\square \times \square = 42$$

$$\square \times \square = 42$$

$$\square \times \square = 42$$

$$\square \times \square = 42$$

2

18

$$\square \times \square = 18$$

$$\square \times \square = 18$$

$$\square \times \square = 18$$

4

28

$$\square \times \square = 28$$

$$\square \times \square = 28$$

$$\square \times \square = 28$$

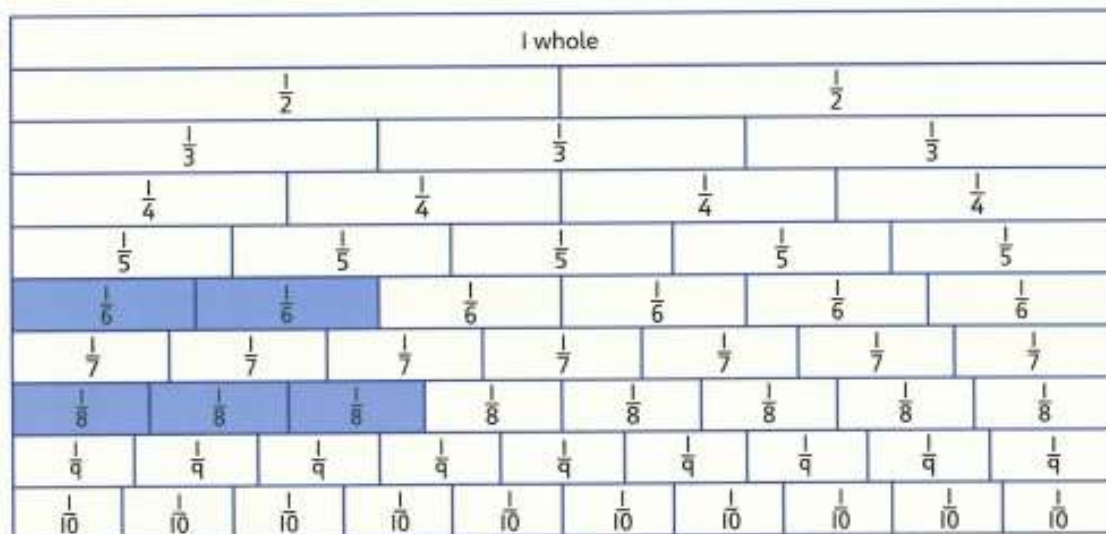
- 5 There are 48 guests at a party. They need to be arranged at tables. How many tables will you need and how many guests will sit at each table? Find as many different ways as you can to do this.
- 6 When the length and the width of a rectangle are multiplied together, the answer (the area) is  $30 \text{ cm}^2$ . Find different possible lengths and widths for this rectangle.



**I am confident with finding factor pairs for a given number.**

# Comparing fractions and finding equivalents

$$\frac{2}{6} < \frac{3}{8}$$



Compare each pair of fractions. Write  $>$  or  $<$  between them.

1  $\frac{3}{6}$   $\frac{4}{9}$

6  $\frac{4}{6}$   $\frac{7}{9}$

11  $\frac{5}{6}$   $\frac{4}{5}$

2  $\frac{2}{3}$   $\frac{7}{8}$

7  $\frac{5}{8}$   $\frac{6}{10}$

12  $\frac{6}{10}$   $\frac{5}{8}$

3  $\frac{3}{4}$   $\frac{4}{5}$

8  $\frac{2}{3}$   $\frac{4}{5}$

13  $\frac{2}{3}$   $\frac{6}{7}$

4  $\frac{3}{10}$   $\frac{2}{9}$

9  $\frac{2}{5}$   $\frac{3}{8}$

14  $\frac{7}{8}$   $\frac{8}{9}$

5  $\frac{5}{8}$   $\frac{4}{6}$

10  $\frac{2}{8}$   $\frac{2}{9}$

15  $\frac{2}{7}$   $\frac{3}{10}$

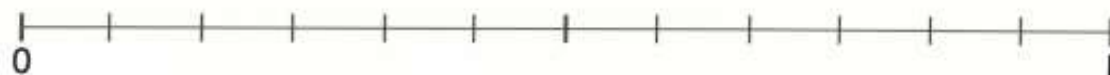


Write four fractions which are greater than a half and four that are less than a half. Then write two fractions that are equal to a half.



I am confident with comparing non-unit fractions.

Use the number lines to help you write  $<$  or  $>$  between each pair of fractions.



1  $\frac{1}{2}$   $\frac{7}{12}$

3  $\frac{3}{4}$   $\frac{11}{12}$

2  $\frac{5}{6}$   $\frac{2}{3}$

4  $\frac{1}{3}$   $\frac{1}{4}$



5  $\frac{4}{5}$   $\frac{9}{10}$

7  $\frac{3}{4}$   $\frac{4}{5}$

6  $\frac{13}{20}$   $\frac{3}{5}$

8  $\frac{1}{4}$   $\frac{9}{20}$

Write  $>$  or  $<$  between each pair of fractions.

9  $\frac{5}{8}$   $\frac{1}{2}$

11  $\frac{4}{5}$   $\frac{18}{20}$

13  $\frac{3}{8}$   $\frac{1}{4}$

10  $\frac{6}{15}$   $\frac{1}{3}$

12  $\frac{1}{2}$   $\frac{7}{16}$

14  $\frac{7}{15}$   $\frac{13}{30}$

Draw a number line split into 16 equal parts. Mark these fractions on it.

15  $\frac{1}{16}$

17  $\frac{3}{8}$

19  $\frac{7}{8}$

21  $\frac{1}{4}$

16  $\frac{1}{2}$

18  $\frac{3}{4}$

20  $\frac{15}{16}$

22  $\frac{5}{8}$

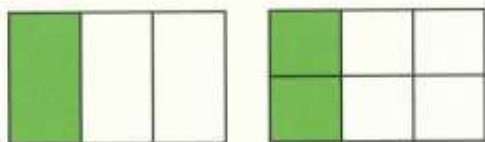


Draw two number lines, one marked in 10ths and one marked in 12ths. With a partner choose a number line each. Choose a fraction each on your number line and compare them. Write them in order using  $<$  or  $=$ . Do this four times.

I am confident with comparing fractions.

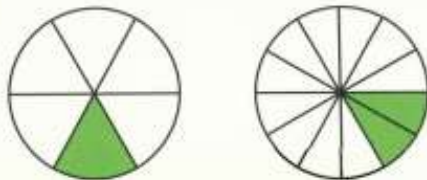


Write the equivalent fractions shown in each pair of shapes.

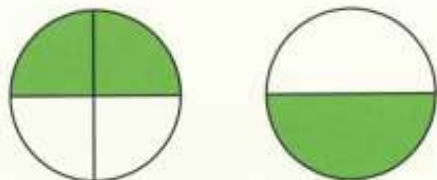


$$\frac{1}{3} = \frac{2}{6}$$

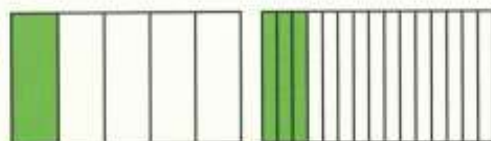
4



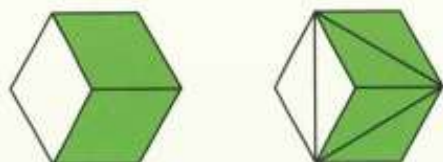
1



5



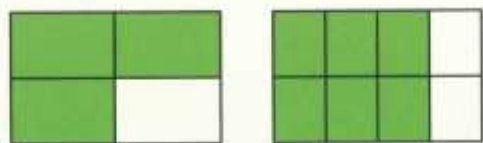
2



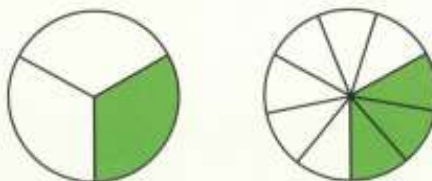
6



3



7



Complete the equivalent fraction pairs.

8  $\frac{3}{4} = \frac{\square}{8}$

11  $\frac{4}{\square} = \frac{8}{10}$

9  $\frac{\square}{4} = \frac{2}{8}$

12  $\frac{4}{8} = \frac{\square}{6}$

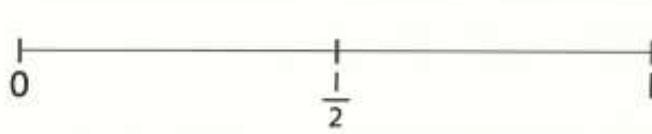
10  $\frac{1}{5} = \frac{\square}{10}$

13  $\frac{4}{6} = \frac{\square}{3}$

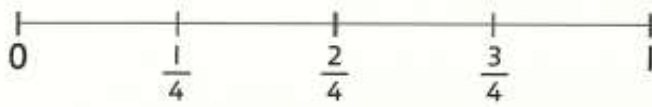


I am confident with recognising equivalent fractions.

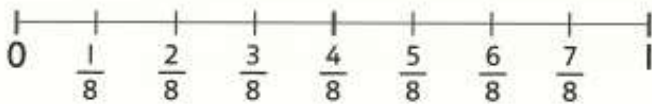
Copy and complete. Use the number lines to help you.



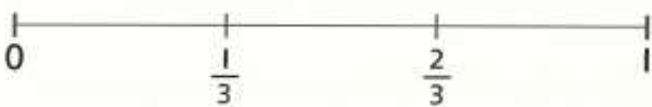
1  $\frac{1}{4} = \frac{\square}{8}$       4  $\frac{3}{4} = \frac{\square}{8}$



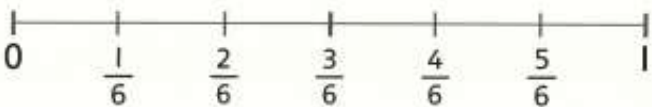
2  $\frac{1}{2} = \frac{\square}{4}$       5  $\frac{1}{2} = \frac{\square}{8}$



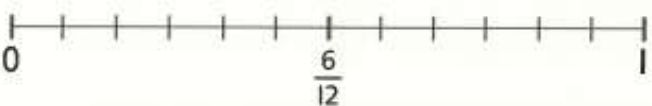
3  $\frac{4}{8} = \frac{\square}{4}$



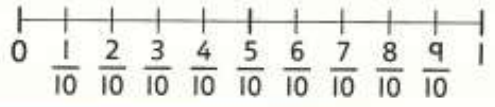
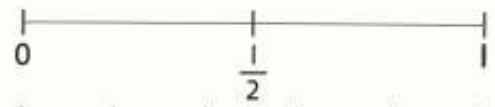
6  $\frac{1}{3} = \frac{\square}{6}$       9  $\frac{2}{3} = \frac{\square}{12}$



7  $\frac{3}{6} = \frac{\square}{12}$       10  $\frac{4}{6} = \frac{\square}{3}$



8  $\frac{1}{6} = \frac{\square}{12}$       11  $\frac{5}{6} = \frac{\square}{12}$



Use these number lines to write some pairs of equivalent fractions:

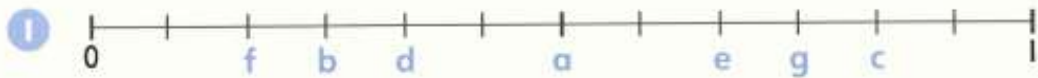
12 Write pairs of letters for the equivalent fractions.

- |                 |                 |                 |                 |                  |                 |                  |
|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|
| A $\frac{2}{6}$ | B $\frac{3}{5}$ | C $\frac{3}{4}$ | D $\frac{1}{2}$ | E $\frac{2}{10}$ | F $\frac{1}{4}$ | G $\frac{1}{3}$  |
| H $\frac{2}{3}$ | I $\frac{6}{8}$ | J $\frac{1}{5}$ | K $\frac{2}{4}$ | L $\frac{4}{6}$  | M $\frac{2}{8}$ | N $\frac{6}{10}$ |



I am confident with finding equivalent fractions and simplifying fractions.

Write the fraction indicated by each letter and an equivalent fraction for it.



Write each fraction in its simplest form.

2  $\frac{8}{10}$

9  $\frac{4}{16}$

16  $\frac{16}{24}$

3  $\frac{2}{4}$

10  $\frac{15}{20}$

17  $\frac{10}{20}$

4  $\frac{6}{8}$

11  $\frac{8}{20}$

18  $\frac{15}{35}$

5  $\frac{12}{24}$

12  $\frac{15}{25}$

19  $\frac{36}{42}$

6  $\frac{12}{18}$

13  $\frac{14}{21}$

20  $\frac{27}{30}$

7  $\frac{9}{12}$

14  $\frac{9}{15}$

21  $\frac{56}{64}$

8  $\frac{10}{15}$

15  $\frac{12}{14}$

22  $\frac{49}{70}$



Write four fractions which simplify to  $\frac{2}{3}$ .



I am confident with finding equivalent fractions and simplifying fractions.

# Multiplying 3- and 4-digit numbers by 1-digit numbers

Copy and complete this multiplication table.

**1**

$\times$	60	300	40	200	90	700
5						
4						
3						
6						

Copy and complete these multiplications using the ladder method shown.

**1**  $342 \times 4 = \square$

$$\begin{array}{r}
 342 \\
 \times 4 \\
 \hline
 1200 \leftarrow 4 \times 300 \\
 160 \leftarrow 4 \times 40 \\
 + 8 \leftarrow 4 \times 2 \\
 \hline
 1368
 \end{array}$$

**2**  $524 \times 3 = \square$

$$\begin{array}{r}
 524 \\
 \times 3 \\
 \hline
 \leftarrow 3 \times 500 \\
 \leftarrow 3 \times 20 \\
 \leftarrow 3 \times 4 \\
 \hline
 \hline
 \hline
 \end{array}$$

**3**  $294 \times 5 = \square$

$$\begin{array}{r}
 294 \\
 \times 5 \\
 \hline
 \leftarrow 5 \times 200 \\
 \leftarrow 5 \times \\
 \leftarrow 5 \times \\
 \hline
 \hline
 \hline
 \end{array}$$

Use the same method for these.

**4**  $158 \times 3 = \square$

**6**  $927 \times 3 = \square$

**8**  $785 \times 4 = \square$

**5**  $468 \times 4 = \square$

**7**  $291 \times 5 = \square$

**9**  $369 \times 5 = \square$

- I am confident with multiplying 3-digit numbers by 1-digit numbers using the ladder method.
- 
-



Use the ladder method to do these multiplications.

1  $168 \times 4 = \square$

2  $247 \times 8 = \square$

3  $384 \times 5 = \square$

4  $145 \times 7 = \square$

5  $482 \times 6 = \square$

6  $653 \times 9 = \square$

7  $671 \times 7 = \square$

8  $785 \times 3 = \square$

9  $807 \times 8 = \square$

10  $962 \times 9 = \square$

11  $2436 \times 3 = \square$

12  $1642 \times 7 = \square$

13  $3417 \times 8 = \square$

14  $4382 \times 4 = \square$

15  $5821 \times 6 = \square$

16  $5158 \times 7 = \square$

17  $6237 \times 8 = \square$

18  $7912 \times 9 = \square$

19  $8069 \times 7 = \square$

20  $9078 \times 6 = \square$



Solve these word problems.

- 21 A shop sells TVs that cost £586 each.  
In one week they sell 6 of them.  
How much money do they get?



- 22 A plane flies 486 miles every day.  
How far does it fly in one week?



- 23 It is 1437 m from Leon's house to his office. How far does he walk in 4 days if he walks there and back each day?

 I am confident with multiplying 3- and 4-digit numbers by 1-digit numbers using the ladder method.

# Dividing 3-digit numbers by 1-digit numbers

$$114 \div 4 = \square$$

$$\square \times 4 = 114$$

$$20 \times 4 = 80$$

$$34$$

$$8 \times 4 = 32$$

$$2$$

$$28$$

$$114 \div 4 = 28 \text{ r } 2$$

$$10 \times 4 = 40$$

$$20 \times 4 = 80$$

$$30 \times 4 = 120$$

$$1 \times 4 = 4$$

$$2 \times 4 = 8$$

$$3 \times 4 = 12$$

$$4 \times 4 = 16$$

$$5 \times 4 = 20$$

$$6 \times 4 = 24$$

$$7 \times 4 = 28$$

$$8 \times 4 = 32$$

$$9 \times 4 = 36$$

Use similar jottings to do these divisions.

1  $116 \div 5 = \square$

$$10 \times 5 = 50$$

$$20 \times 5 = 100$$

$$30 \times 5 = 150$$

$$1 \times 5 = 5$$

$$2 \times 5 = 10$$

$$3 \times 5 = 15$$

$$4 \times 5 = 20$$

$$5 \times 5 = 25$$

$$6 \times 5 = 30$$

$$7 \times 5 = 35$$

$$8 \times 5 = 40$$

$$9 \times 5 = 45$$

2  $137 \div 4 = \square$

8  $145 \div 4 = \square$

3  $148 \div 5 = \square$

9  $193 \div 5 = \square$

4  $198 \div 9 = \square$

10  $252 \div 9 = \square$

5  $109 \div 4 = \square$

11  $115 \div 3 = \square$

6  $236 \div 9 = \square$

12  $149 \div 6 = \square$

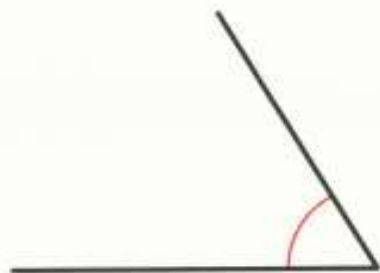
7  $108 \div 3 = \square$

13  $219 \div 8 = \square$

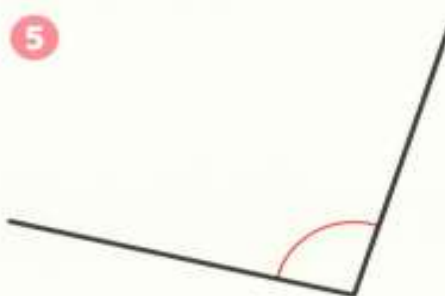
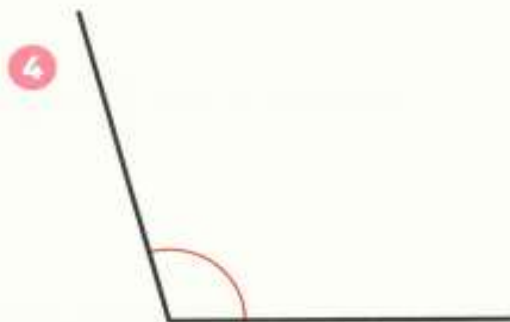
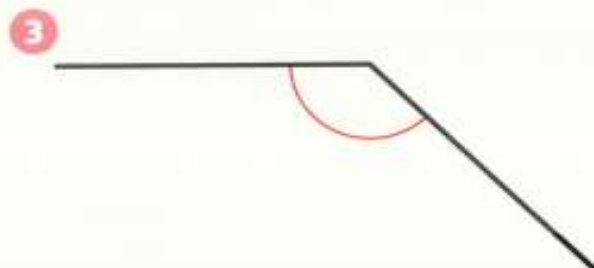
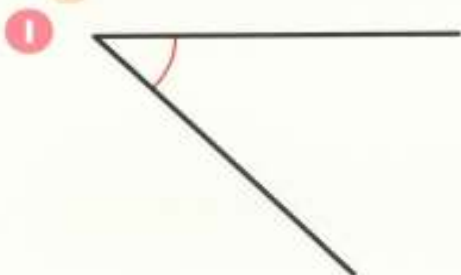
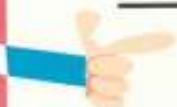
I am confident with dividing 3-digit numbers by 1-digit numbers.

# Measuring angles

Estimate the size of each angle. Then use a protractor to measure it. Say whether each angle is acute or obtuse.

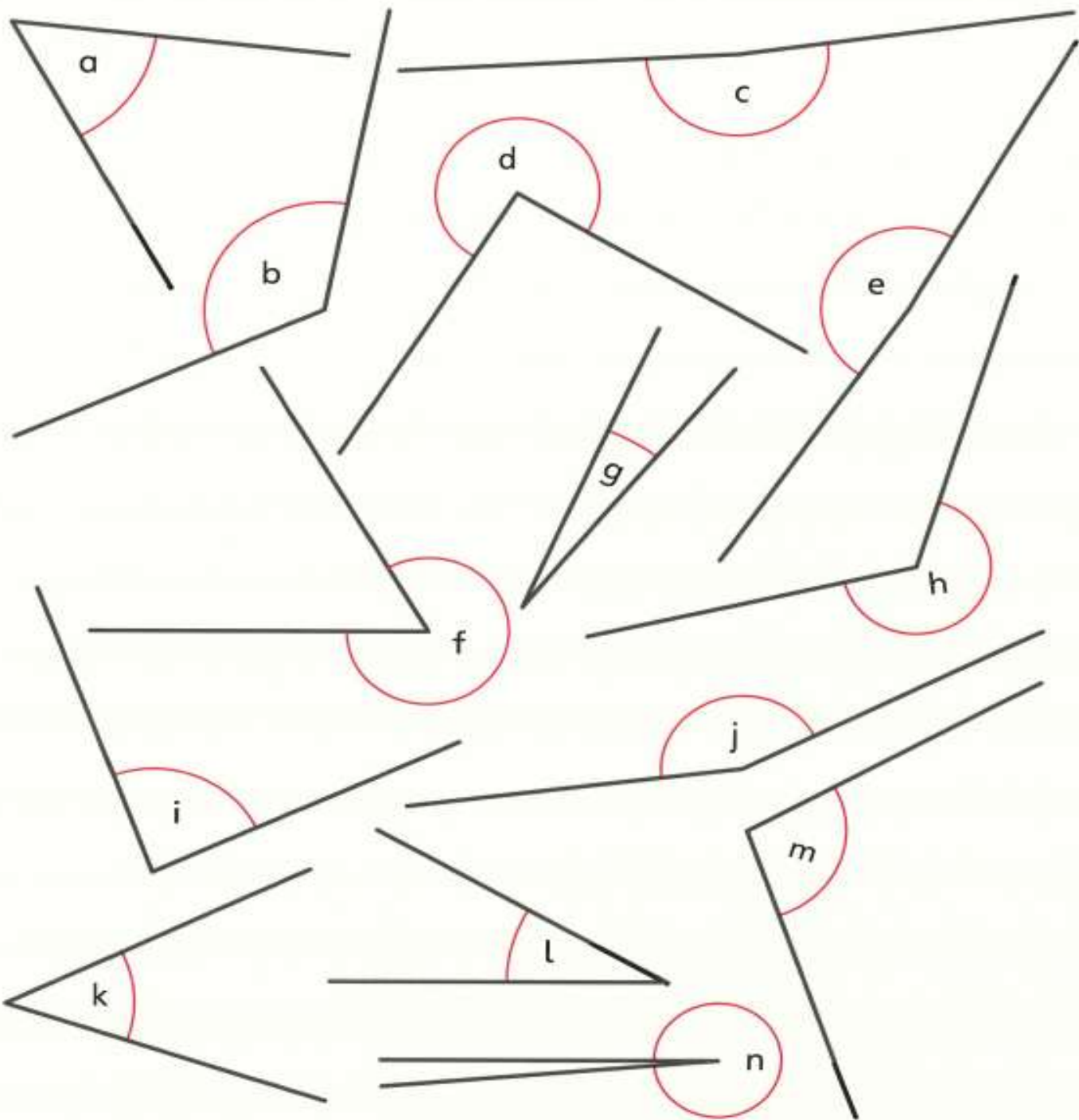


60°, acute



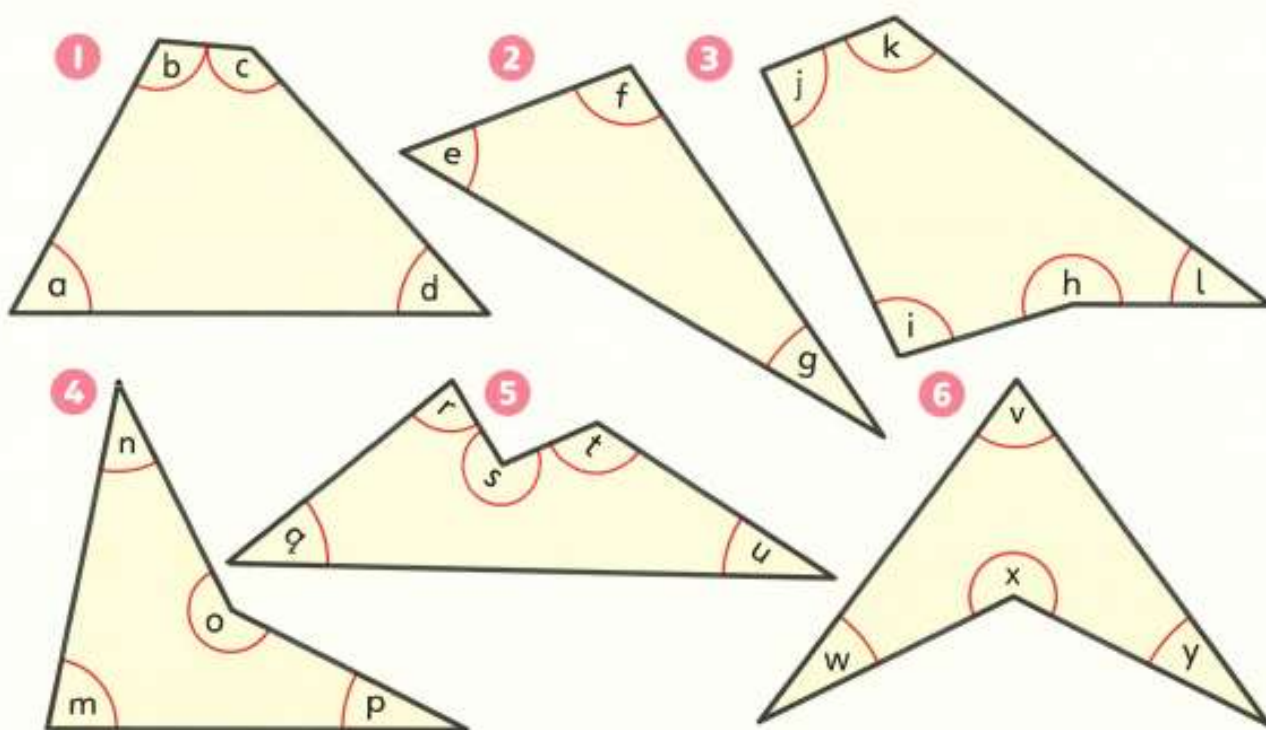
I am confident with measuring angles and recognising whether they are acute or obtuse.

Estimate the size of each angle. Then use a protractor to measure it. Say whether each angle is acute, obtuse or reflex.



I am confident with measuring angles and recognising whether they are acute, obtuse or reflex.

Estimate the size of each angle in each shape. Then measure them. Decide whether each angle is acute, obtuse or reflex.



Draw these angles. Write whether they are acute, obtuse or reflex.

7  $47^\circ$

9  $106^\circ$

11  $192^\circ$

13  $347^\circ$

8  $89^\circ$

10  $173^\circ$

12  $264^\circ$

14  $93^\circ$

Draw a shape with as many reflex angles as you can. Measure the angles and copy and complete the table.

15

Number of sides	Number of reflex angles	Measure of reflex angles

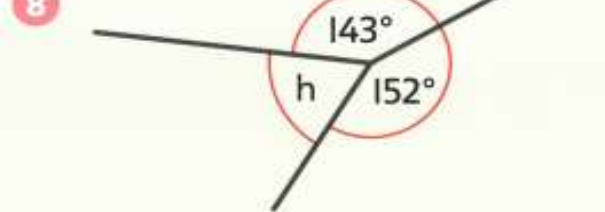
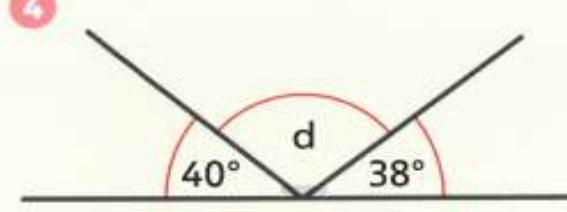
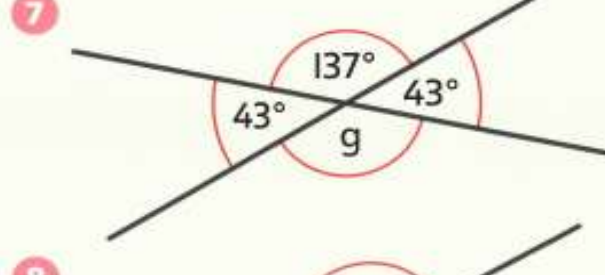
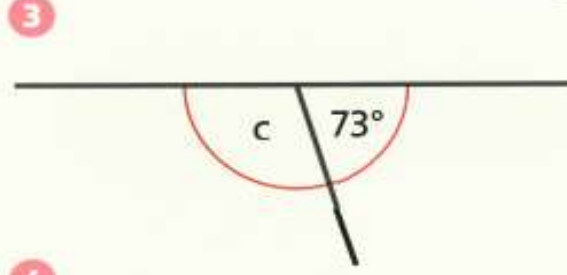
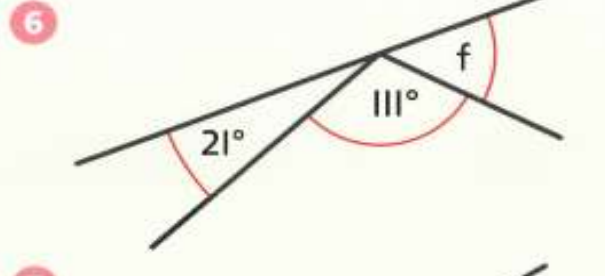
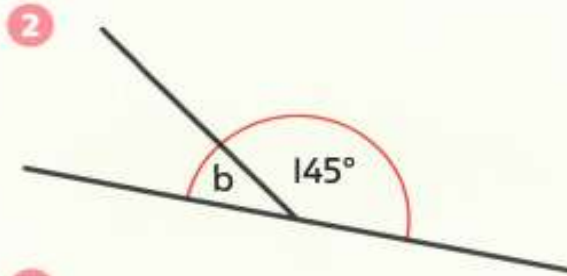
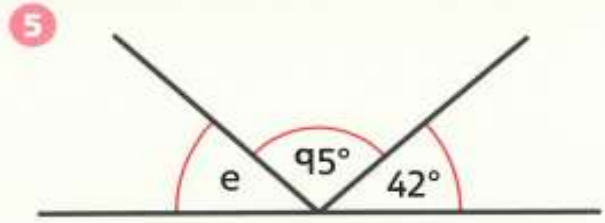
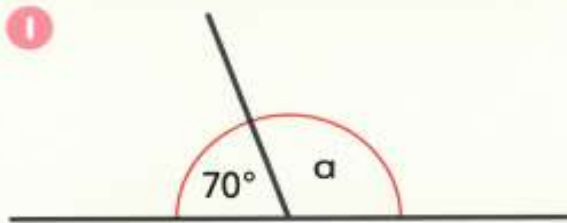


A quadrilateral could have two reflex angles. True or false?

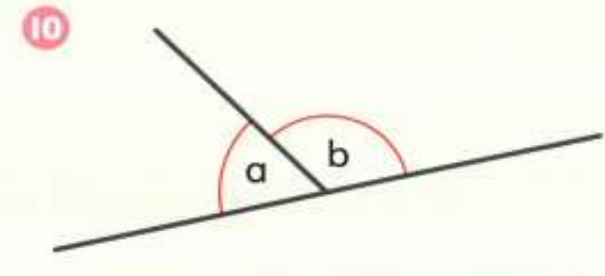
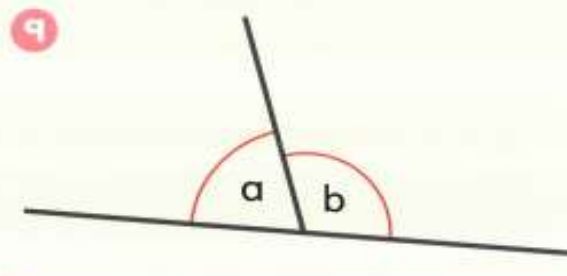


I am confident with measuring and drawing angles, and recognising whether they are acute, obtuse or reflex.

Find the size of the angle marked with a letter.



Measure angle a to find angle b.



 I am confident with measuring and finding angles on a line and around a point.

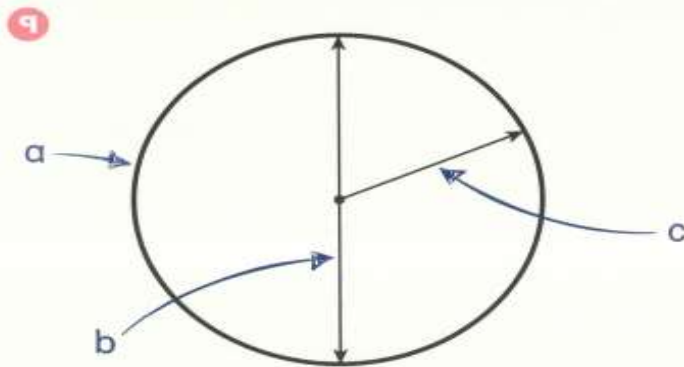
# circles

**GRAB!** Damp string

**Draw and label a circle with:**

- 1 a radius of 7 cm.
- 2 a radius of 3 cm.
- 3 a radius of 4 cm.
- 4 a radius of 8 cm.
- 5 a radius of 6 cm.
- 6 a radius of 5 cm.

Label the parts of this circle.

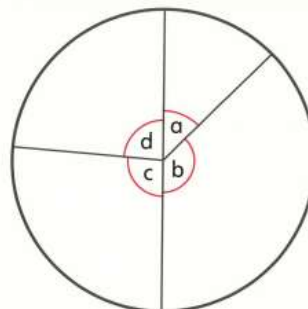


I am confident with labelling and measuring parts of a circle.

70

Use a ruler and a protractor to measure each of the following parts of this diagram:

- 1 the diameter of this circle.
- 2 angle a
- 3 angle b
- 4 angle c
- 5 angle d



# Rounding 5-digit numbers

Copy each line and mark the given number. Then round it to the nearest 10.



41387



2 22074



1 39416



3 64825



Copy each line and mark the given number. Then round it to the nearest 100.

4 27432



6 66159



5 45739



7 37061



Copy the line and table.  
Mark the given number on the line and fill in the table.

8 82715



82715	
Nearest 10	
Nearest 100	
Nearest 1000	



Draw and complete a similar table for 68226.



I am confident with placing 5-digit numbers on a number line and rounding them to the nearest 10, 100 and 1000.