

Year 7
Mathematics
Unit 5



Name: _____

Class: _____

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1 Fractions, Decimals and Percentages

1.1 Decimals to Percentages

In this section you will look at converting from decimals to percentages.

Decimal

Multiply by 100

Fraction

Percentage

Worked Example

Convert the following decimals into percentages:

- a) 0.37
- b) 0.037
- c) 3.7

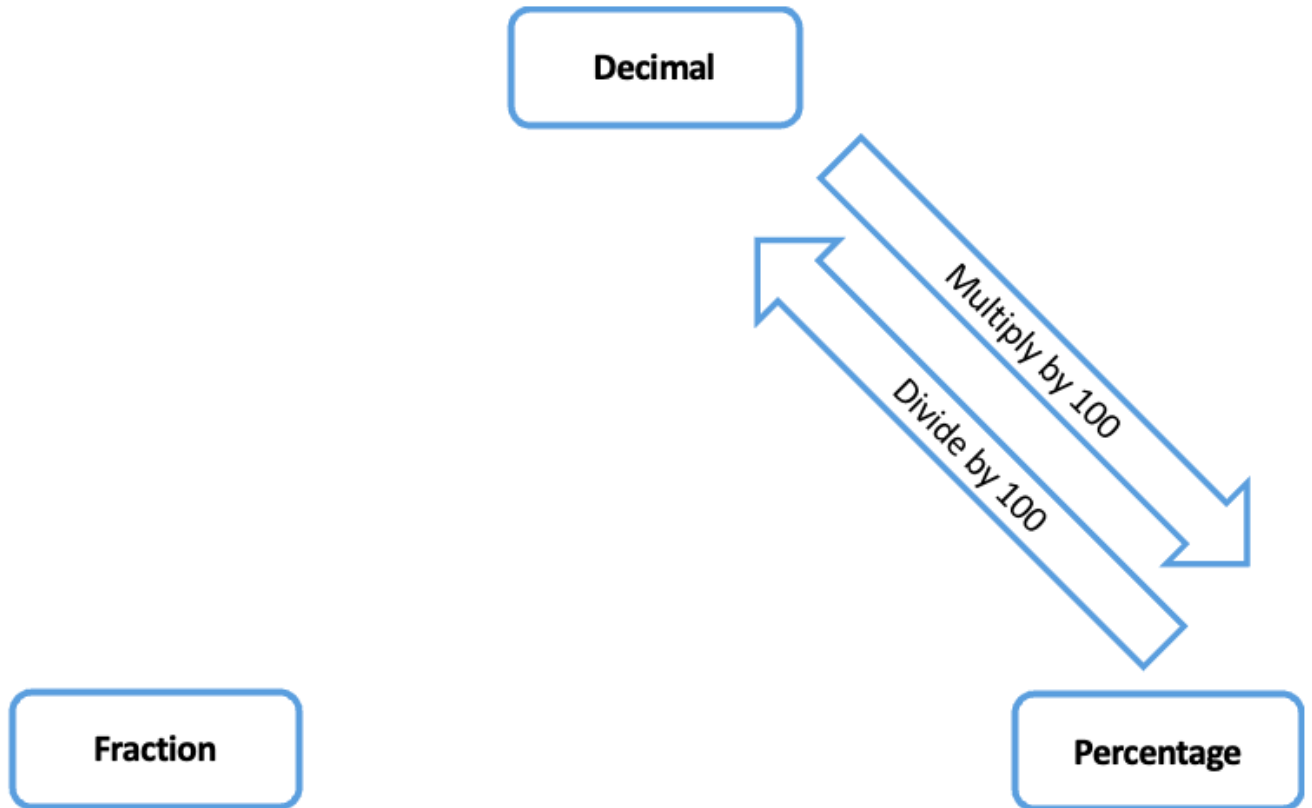
Your Turn

Convert the following decimals into percentages:

- a) 0.38
- b) 0.038
- c) 3.8

1.2 Percentages to Decimals

In this section you will look at converting from percentages to decimals.



Worked Example

Convert the following percentages into decimals:

- a) 82%
- b) 8.2%
- c) 820%

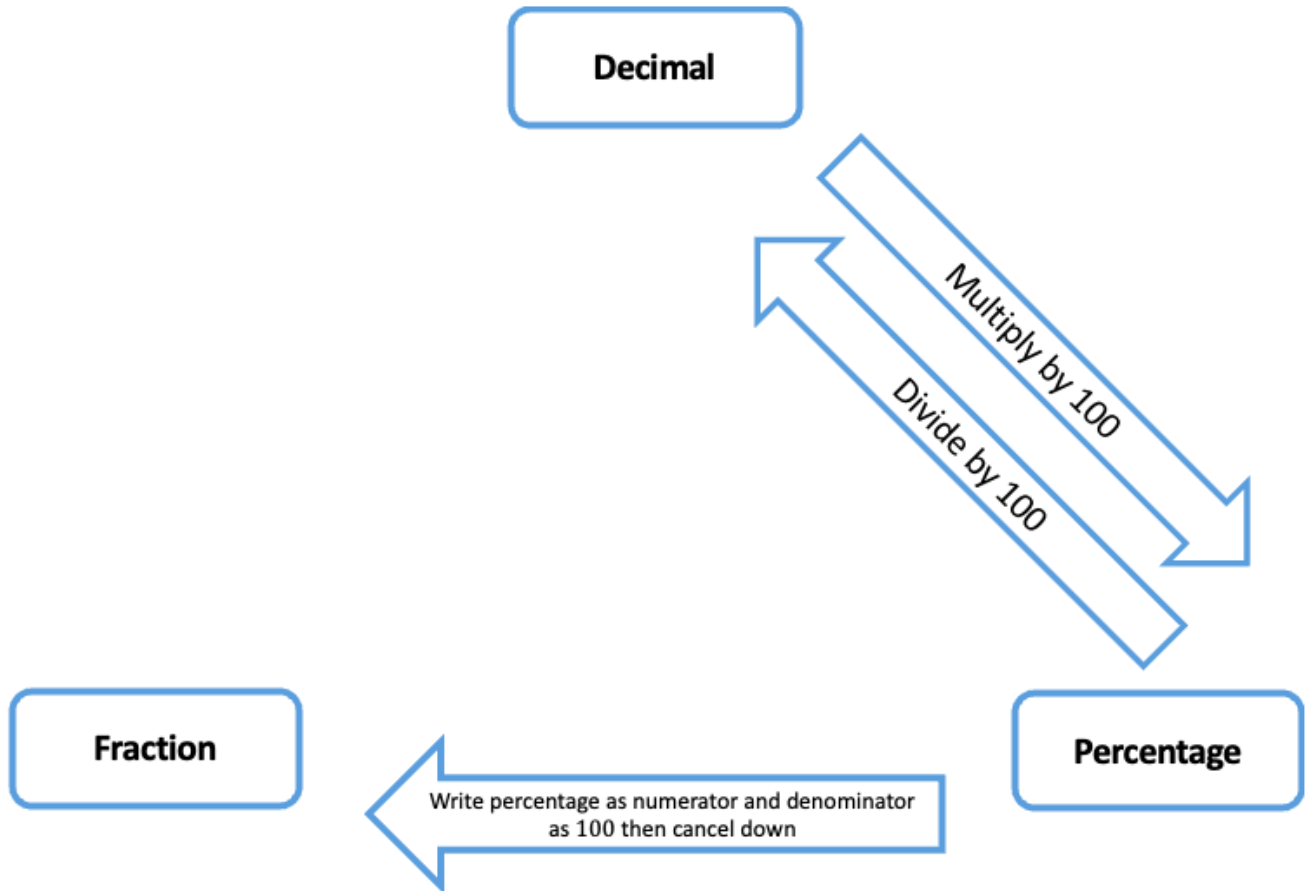
Your Turn

Convert the following percentages into decimals:

- a) 81%
- b) 8.1%
- c) 810%

1.3 Percentages to Fractions

In this section you will look at converting from percentages to fractions.



Worked Example

Convert the following percentages into fractions in their simplest form:

- a) 6%
- b) 66%
- c) 66.6%
- d) 666%

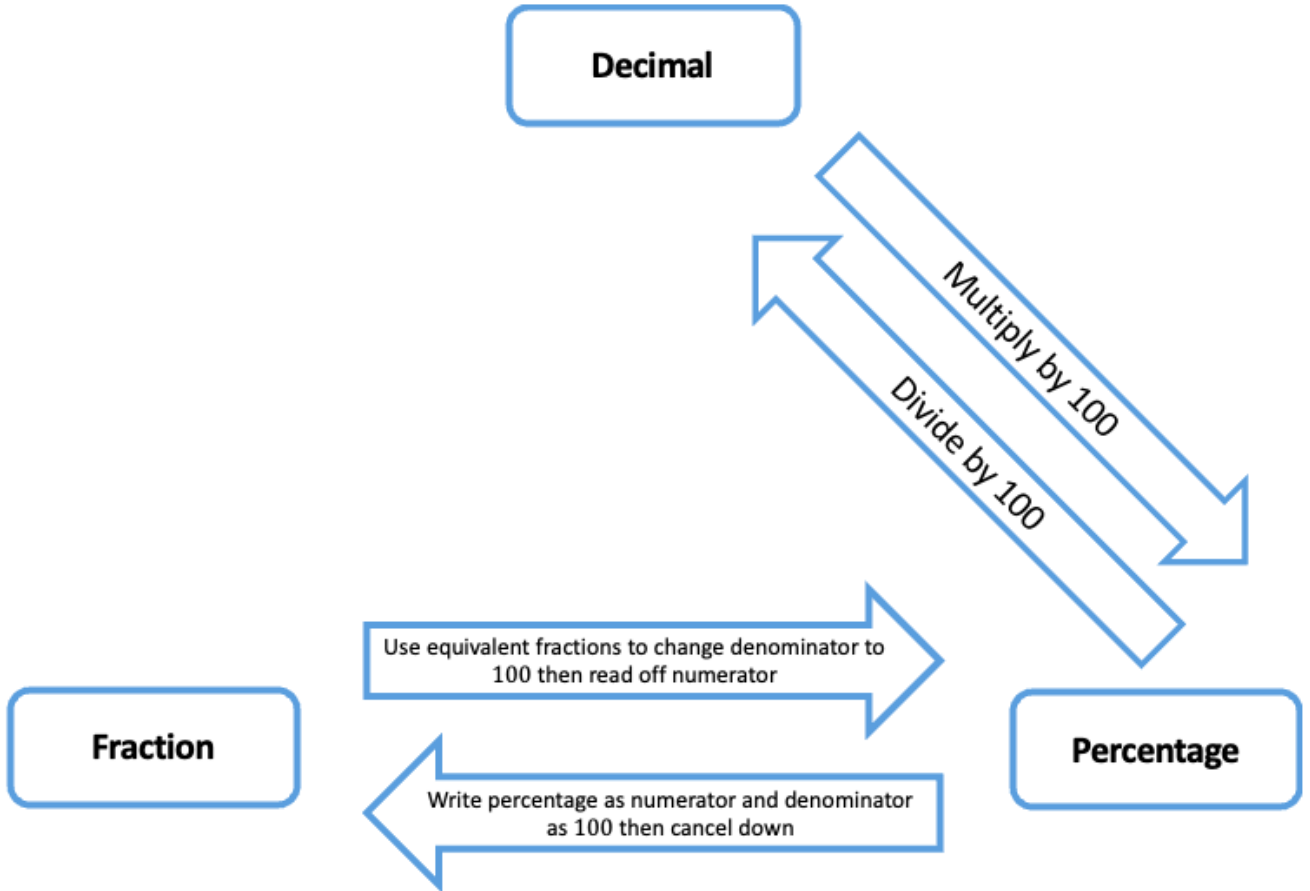
Your Turn

Convert the following percentages into fractions in their simplest form:

- a) 8%
- b) 88%
- c) 88.8%
- d) 888%

1.4 Fractions to Percentages

In this section you will look at converting from fractions to percentages.



Worked Example

Convert the following fractions into percentages:

a) $\frac{6}{10}$

b) $\frac{6}{5}$

c) $\frac{6}{60}$

d) $\frac{6}{600}$

Your Turn

Convert the following fractions into percentages:

a) $\frac{8}{10}$

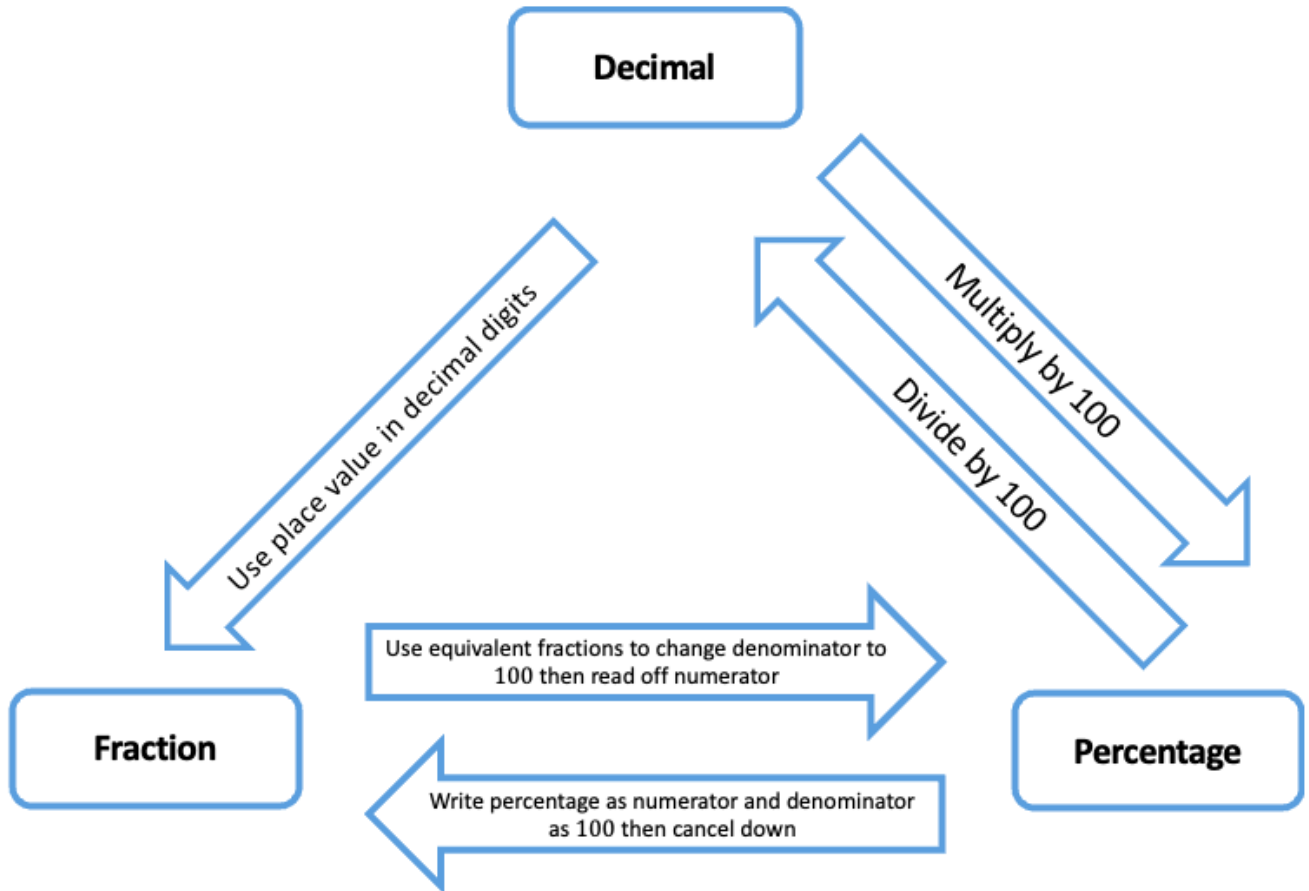
b) $\frac{8}{5}$

c) $\frac{8}{40}$

d) $\frac{8}{400}$

1.5 Decimals to Fractions

In this section you will look at converting from decimals to fractions.



Frayer Model – Terminating Decimal

Definition

Characteristics

Examples

Non-Examples

Worked Example

Convert the following decimals into fractions in their simplest form:

- a) 0.8
- b) 0.08
- c) 0.085
- d) 8.5

Your Turn

Convert the following decimals into fractions in their simplest form:

- a) 0.2
- b) 0.02
- c) 0.025
- d) 2.5

1.6 Recurring Decimal Notation

In this section you will look at the notation for recurring decimals.

- $0.123\dot{4}$
- $0.\dot{6}$
- $2.\dot{3}\dot{7}$
- $0.\dot{1}4285\dot{7}$
- $7846.1\dot{3}$

Frayer Model – Recurring Decimal

Definition

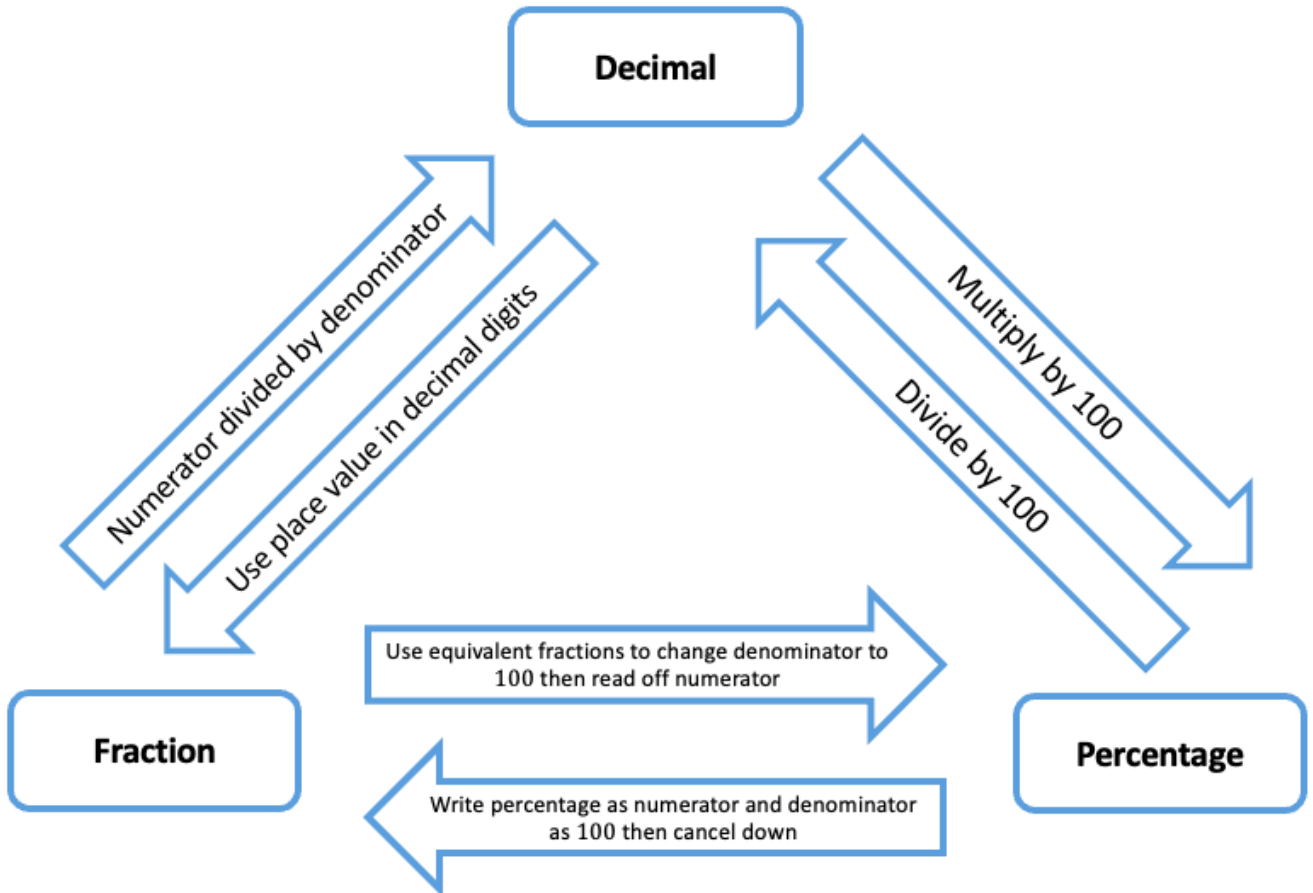
Characteristics

Examples

Non-Examples

1.7 Fractions to Decimals

In this section you will look at converting from fractions to decimals.



Worked Example

Convert the following fractions into decimals:

a) $\frac{1}{4}$

b) $\frac{1}{3}$

Your Turn

Convert the following fractions into decimals:

a) $\frac{3}{4}$

b) $\frac{2}{3}$

2 Percentages

2.1 Expressing as Percentages

In this section you will look at expressing a number as a percentage of another without a calculator.

Worked Example

- a) Write 15 as a percentage of 30
- b) Write 10 as a percentage of 25
- c) Write 15 as a percentage of 150
- d) Write 10 as a percentage of 80

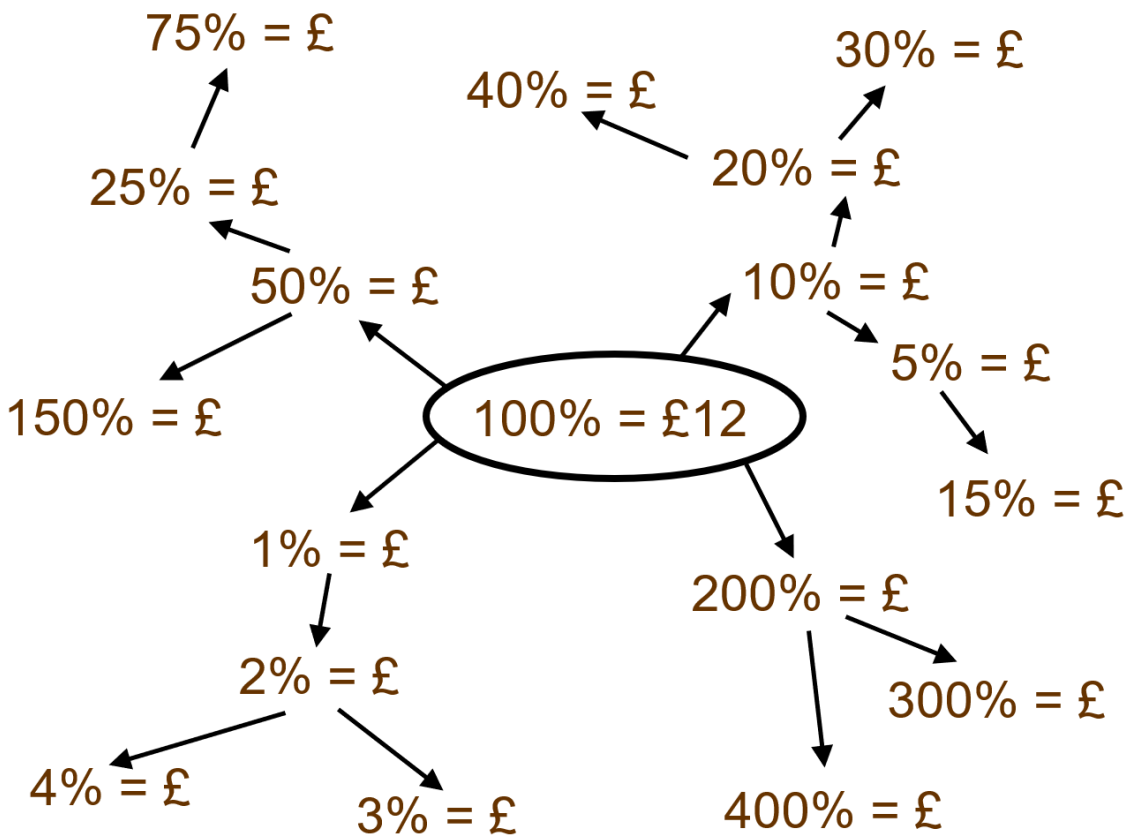
Your Turn

- a) Write 30 as a percentage of 60
- b) Write 20 as a percentage of 50
- c) Write 3 as a percentage of 30
- d) Write 5 as a percentage of 40

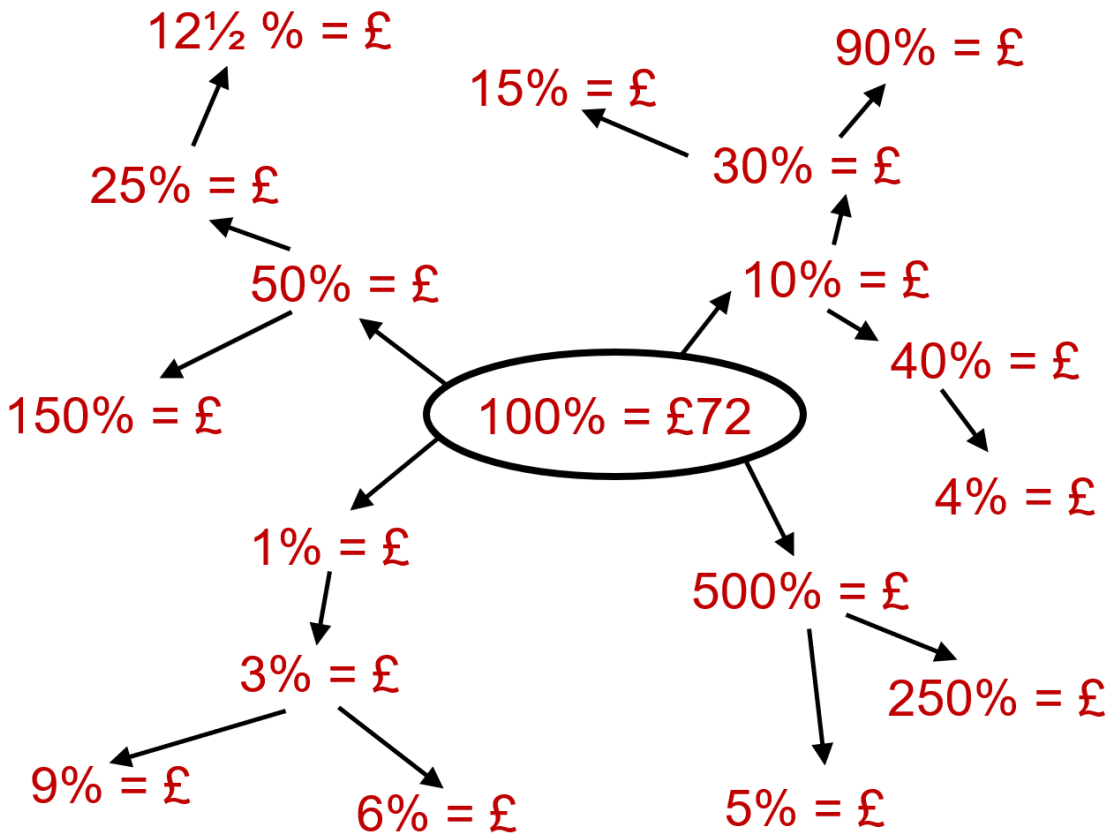
2.2 Percentages of Amounts

In this section you will look at calculating percentages of amounts without a calculator.

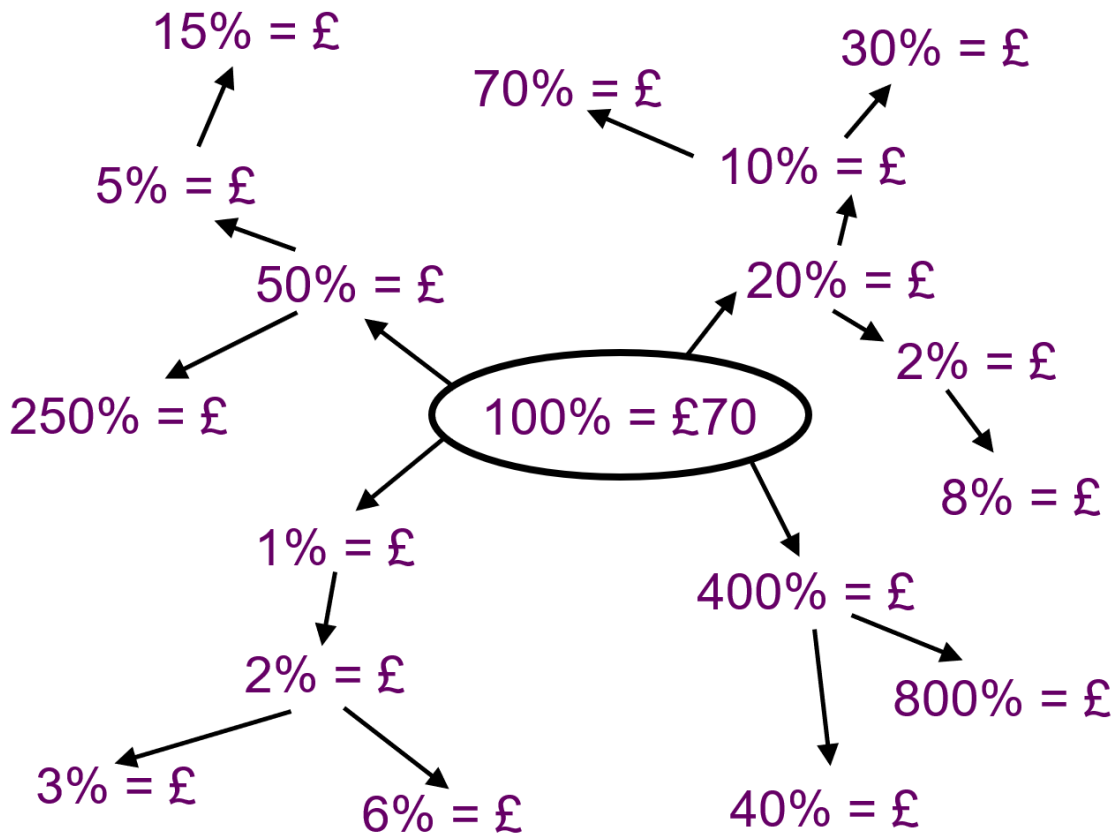
Worked Example



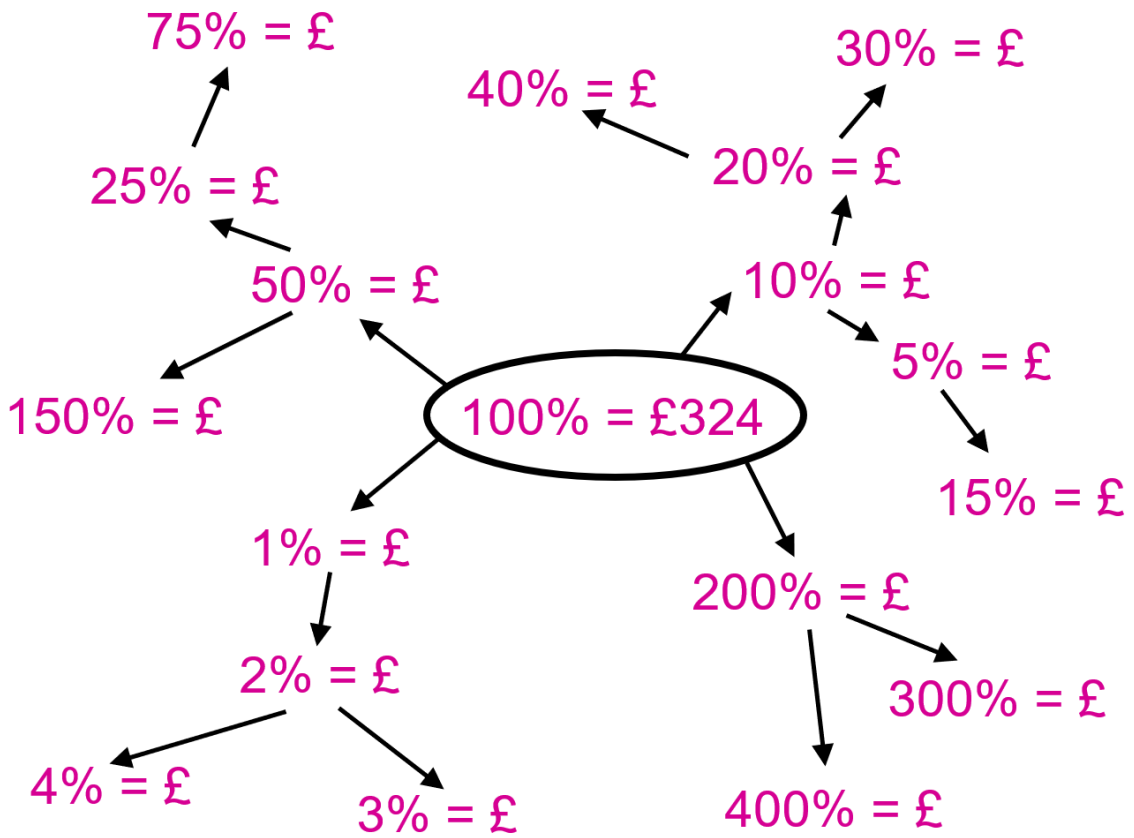
Your Turn



Your Turn



Your Turn



2.3 Percentage Increase

In this section you will look at calculating amounts after a percentage increase without a calculator.

Worked Example

Increase 40 by 20%

Your Turn

Increase 90 by 20%

2.4 Percentage Decrease

In this section you will look at calculating amounts after a percentage decrease without a calculator.

Worked Example

Decrease 40 by 20%

Your Turn

Decrease 90 by 20%

2.5 Percentage Change

In this section you will look at calculating the percentage change without a calculator.

Worked Example

Calculate the percentage change:

- a) Original value: £400
New value: £360

- b) Original value: £400
New value: £440

Your Turn

Calculate the percentage change:

- a) Original value: £200
New value: £150

- b) Original value: £200
New value: £250

2.6 Reverse Percentages

In this section you will look at calculating amounts before a percentage increase/decrease has taken place without a calculator.

Worked Example

Calculate the original amount:

- a) Percentage change:
10% decrease
New value: £360
- b) Percentage change:
10% increase
New value: £440

Your Turn

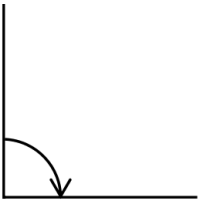
Calculate the original amount:

- a) Percentage change:
25% decrease
New value: £150
- b) Percentage change:
25% increase
New value: £250

3 Angle Basics

3.1 Types of Turns and Angles

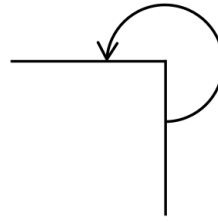
In this section you will look at the types of turns and angles.



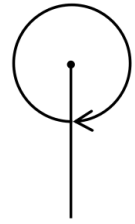
A quarter of a turn clockwise



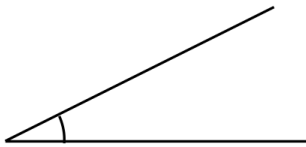
Half a turn anticlockwise



Three quarters of a turn anticlockwise

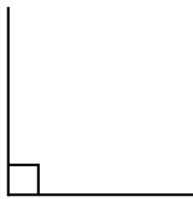


A full turn clockwise



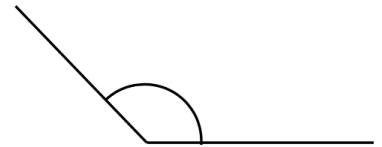
Acute Angle

Any angle between 0° and 90°



Right Angle

An angle that is exactly 90°



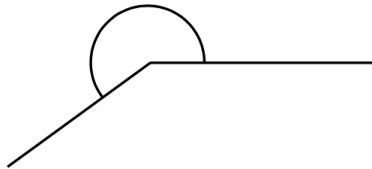
Obtuse Angle

Any angle between 90° and 180°



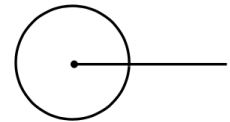
Straight Line

An angle that is exactly 180°



Reflex Angle

Any angle between 180° and 360°



Full Turn

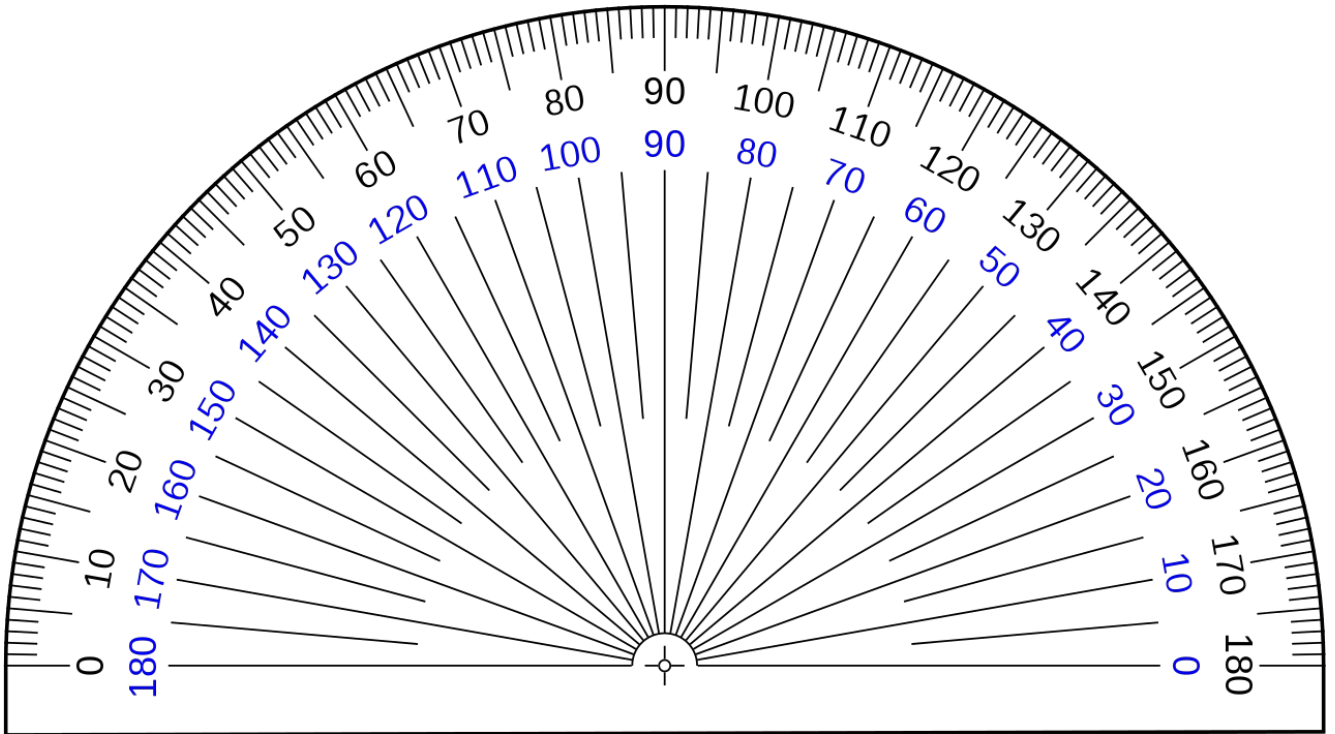
An angle that is exactly 360°

3.2 Estimating Angles

In this section you will look at estimating angles.

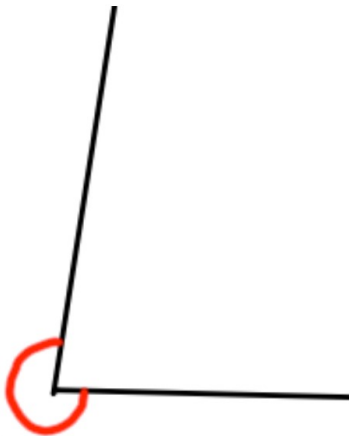
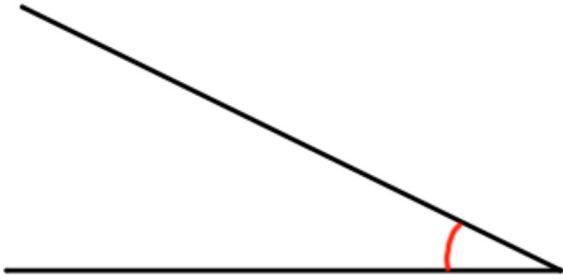
3.3 Measuring Angles

In this section you will look at measuring angles with a protractor.



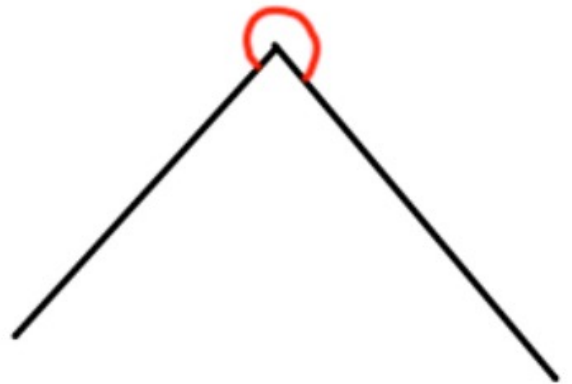
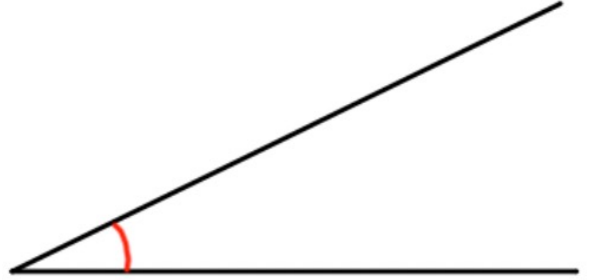
Worked Example

Measure the angles below.



Your Turn

Measure the angles below.



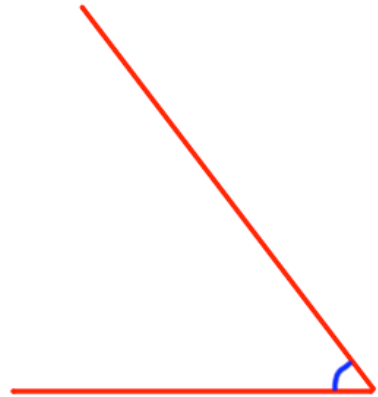
Fluency Practice

Question 2: Measure each angle below

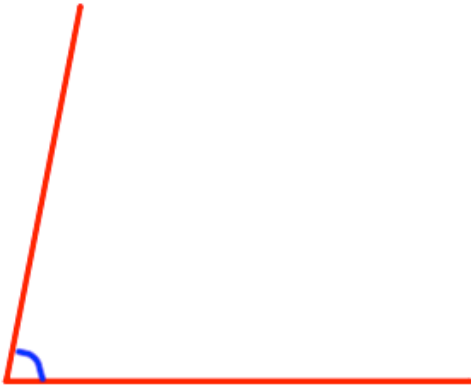
(a)



(b)



(c)



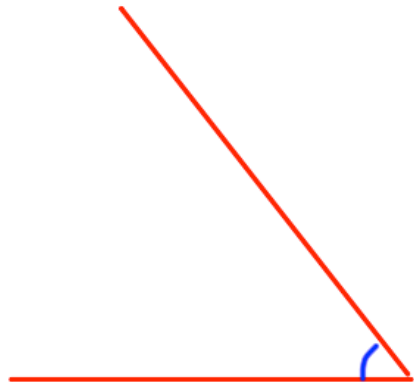
(d)



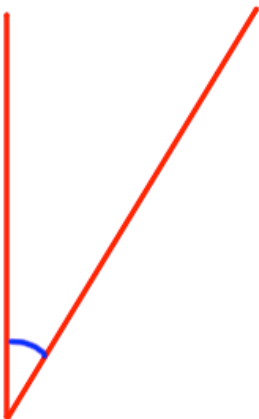
(e)



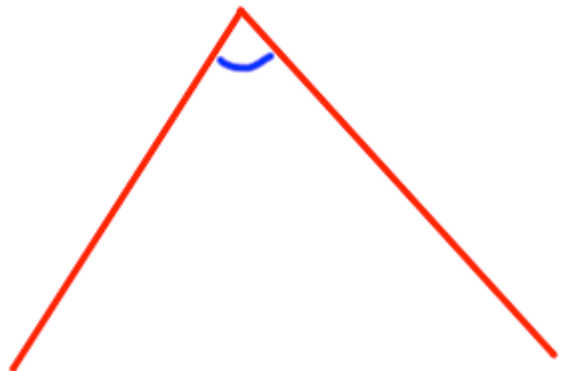
(f)



(g)



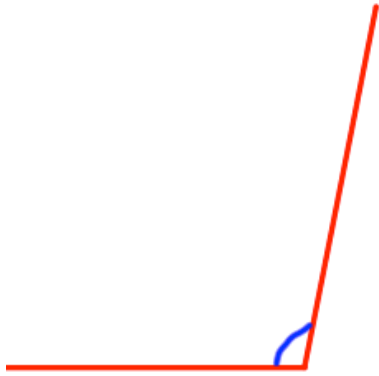
(h)



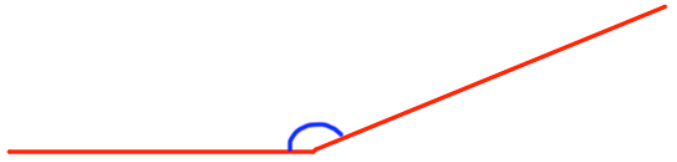
Fluency Practice

Question 3: Measure each angle below

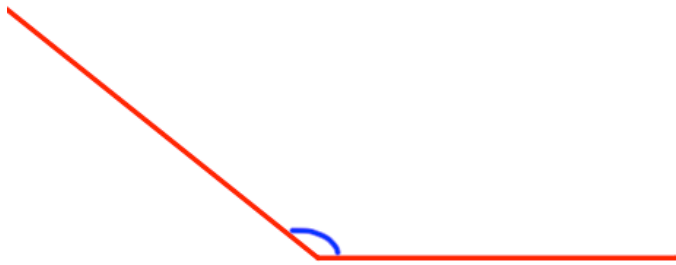
(a)



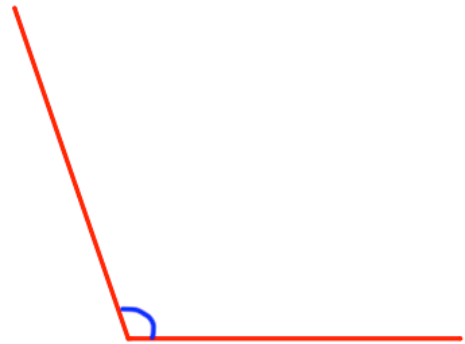
(b)



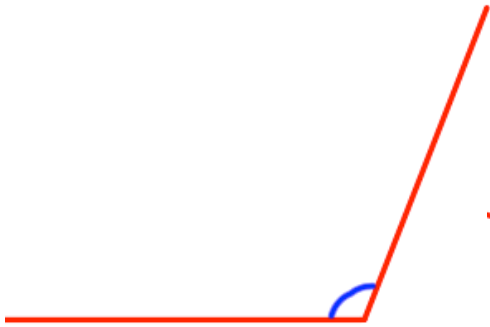
(c)



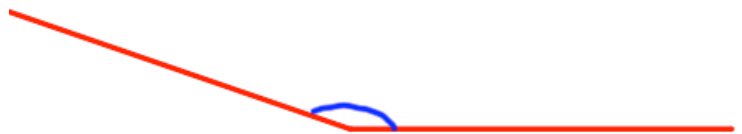
(d)



(e)



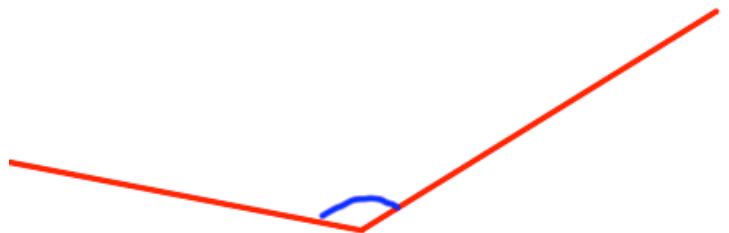
(f)



(g)



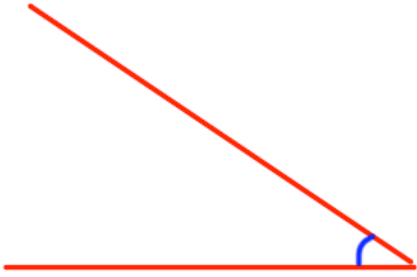
(h)



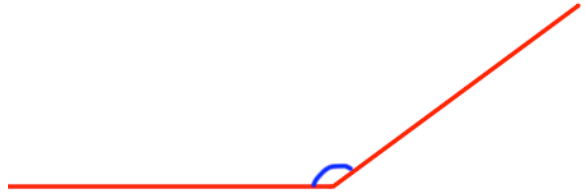
Fluency Practice

Question 4: Measure each angle below

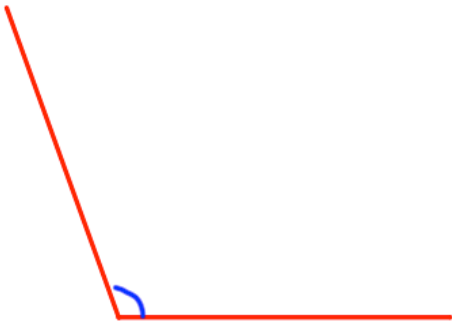
(a)



(b)



(c)



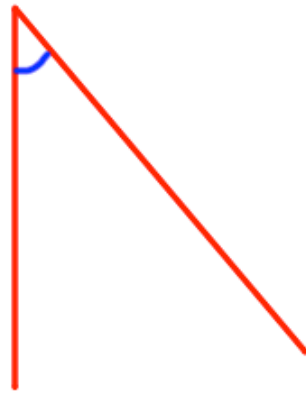
(d)



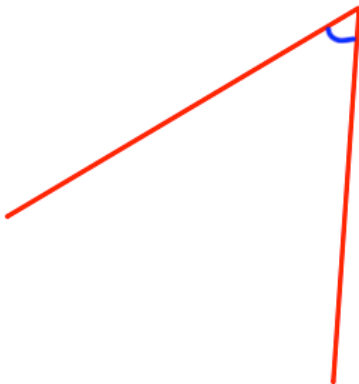
(e)



(f)



(g)



(h)



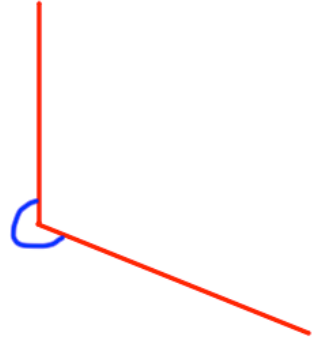
Fluency Practice

Question 5: Measure each reflex angle below

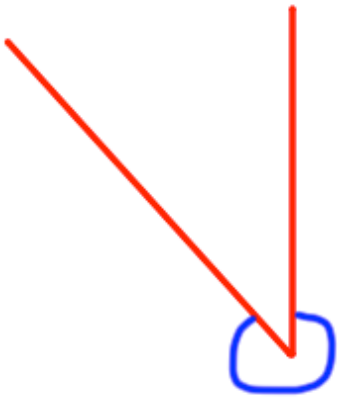
(a)



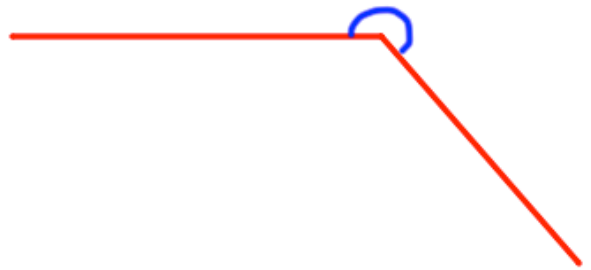
(b)



(c)



(d)



3.4 Drawing Angles

In this section you will look at drawing angles with a protractor, ruler and pencil.

Worked Example

Draw an angle of 70°

Draw an angle of 215°

Your Turn

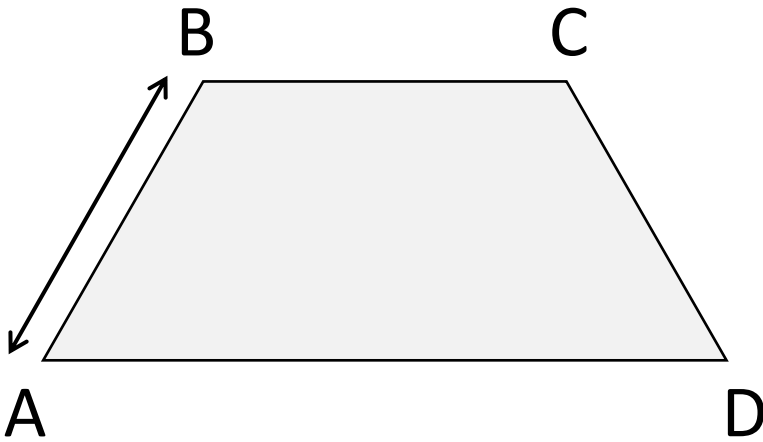
Draw an angle of 80°

Draw an angle of 225°

3.5 Notation and Labelling

In this section you will look at the notation for lengths and angles and how to label them correctly.

Labelling Lengths



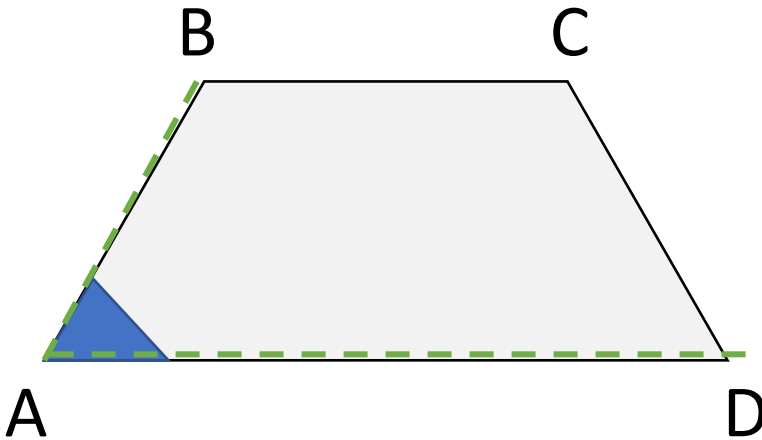
Each point (or corner) of a shape is labelled with a letter.

If we are talking about this distance...

We say we are looking for the length of AB

Because it is the distance between the point labelled A and the point labelled B

Labelling Angles



Each point (or corner) of a shape is labelled with a letter

If we are talking about this angle...

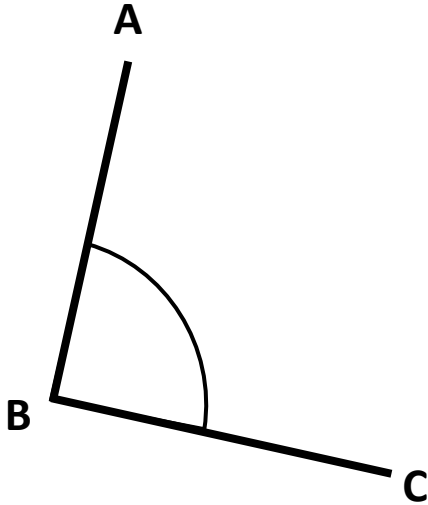
We say we are looking for the angle DAB

Because if we draw a line in order from point D to point A to point B, we draw around the angle

Angle Notation

We can label angles in multiple ways:

$\angle ABC$ or \widehat{ABC} or *Angle ABC*



It can help to see these are instructions rather than labels:

“The turn from line AB to line BC”

We don't need to specify direction yet, so:

$$\widehat{ABC} = \widehat{CBA}$$

“The turn from line BC to line AB”

Note: We use capital letter for points.

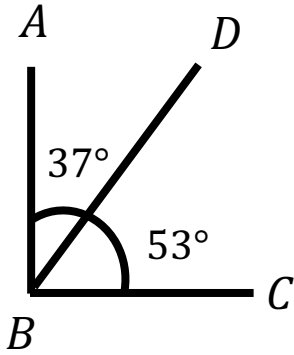
Worked Example

Write down the values of:

$$\angle ABD =$$

$$\angle DBC =$$

$$\angle ABC =$$



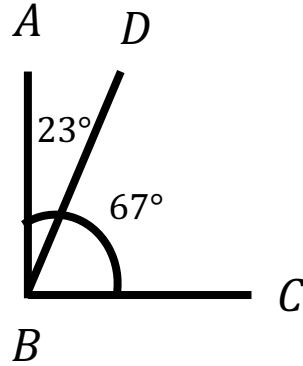
Your Turn

Write down the values of:

$$\angle ABD =$$

$$\angle DBC =$$

$$\angle ABC =$$



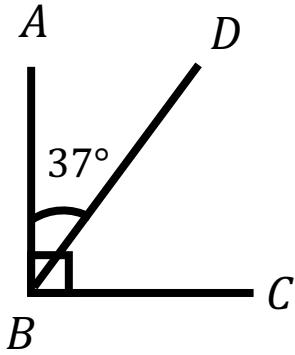
Worked Example

Write down the values of:

$$\angle ABD =$$

$$\angle ABC =$$

$$\angle DBC =$$



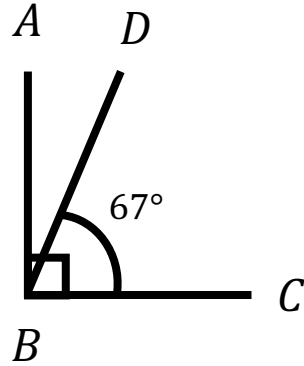
Your Turn

Write down the values of:

$$\angle DBC =$$

$$\angle ABC =$$

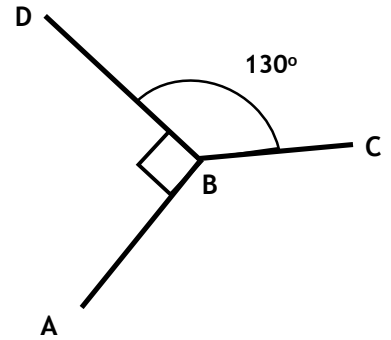
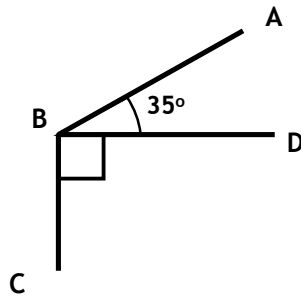
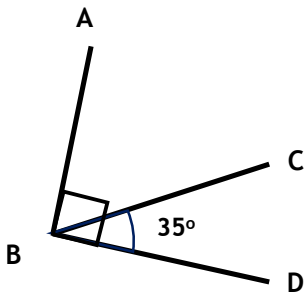
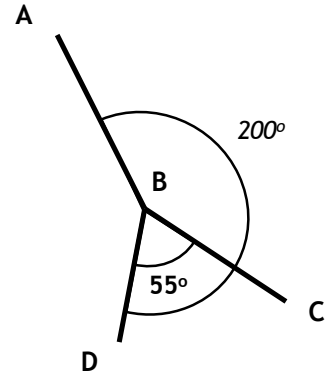
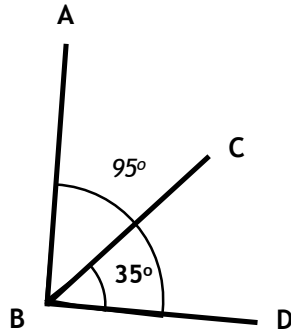
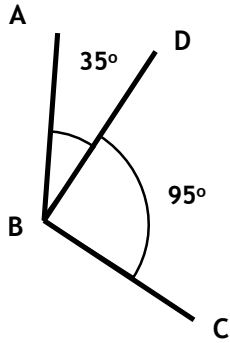
$$\angle ABD =$$



Fluency Practice

Find the value of $\angle ABC$ (clockwise) in each diagram below

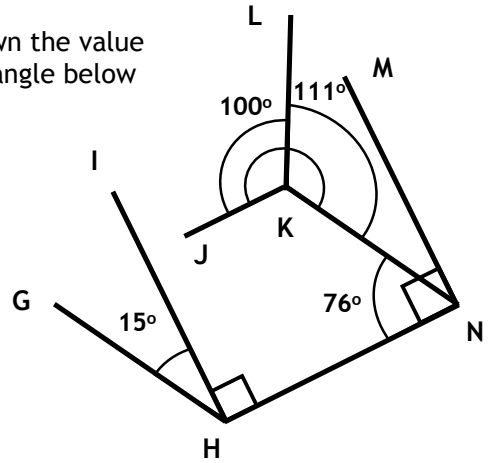
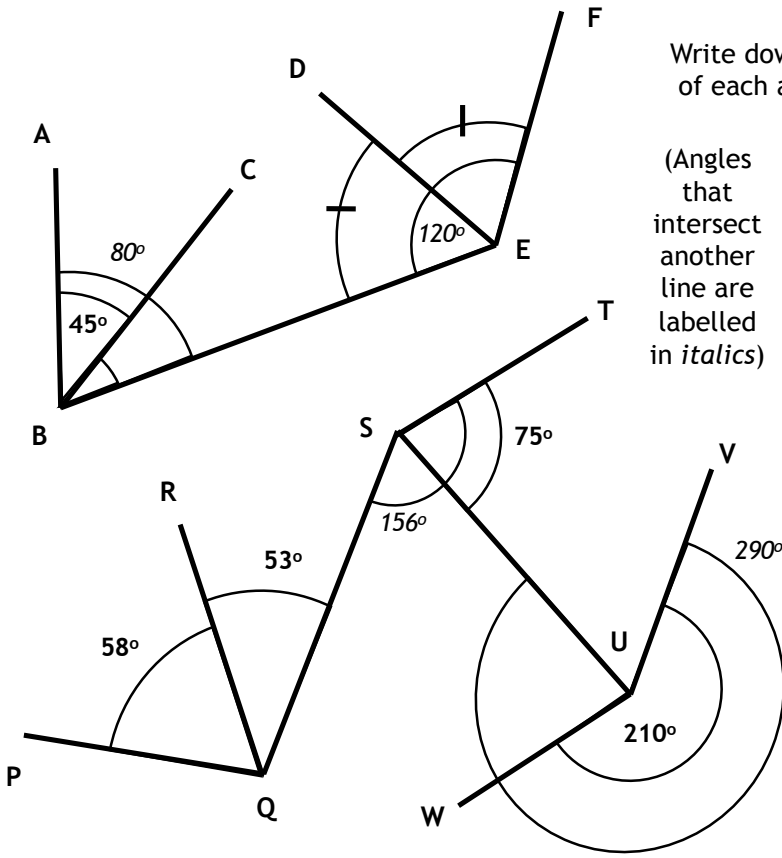
(Angles that intersect another line are labelled in *italics*)



Fluency Practice

Write down the value of each angle below

(Angles that intersect another line are labelled in *italics*)



All angles are measured clockwise

- | | |
|----------------|----------------|
| $\angle PQS =$ | $\angle KNM =$ |
| $\angle USQ =$ | $\angle JKN =$ |
| $\angle WUS =$ | $\angle CBE =$ |
| $\angle GHN =$ | $\angle DEF =$ |

Fluency Practice

1) Write down the value of each angle below

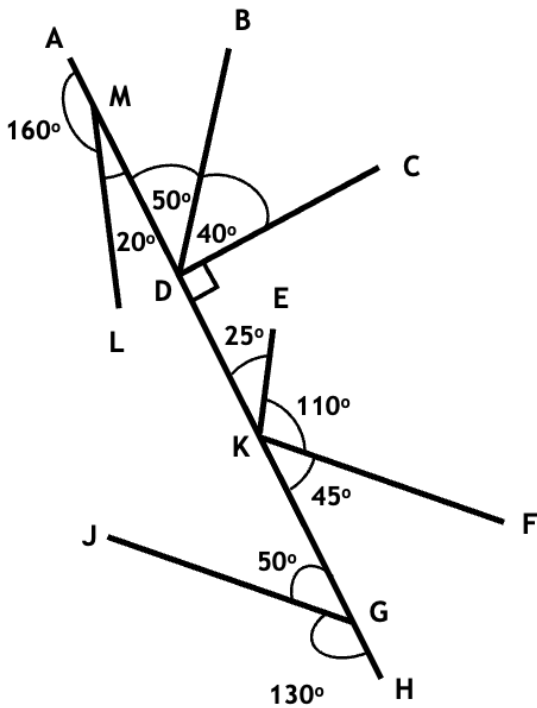


Diagram
not to
scale

$$\angle JGH = \quad \angle AML =$$

$$\angle DKE = \quad \angle ADB =$$

$$\angle BDC = \quad \angle KGJ =$$

$$\angle CDK = \quad \angle LMD =$$

$$\angle FKG = \quad \angle EKF =$$

2) Group the angles above into half turns

3) Write down the value of each angle below

$$\angle EKG = \quad \angle GKD =$$

$$\angle FKD = \quad \angle FKM =$$

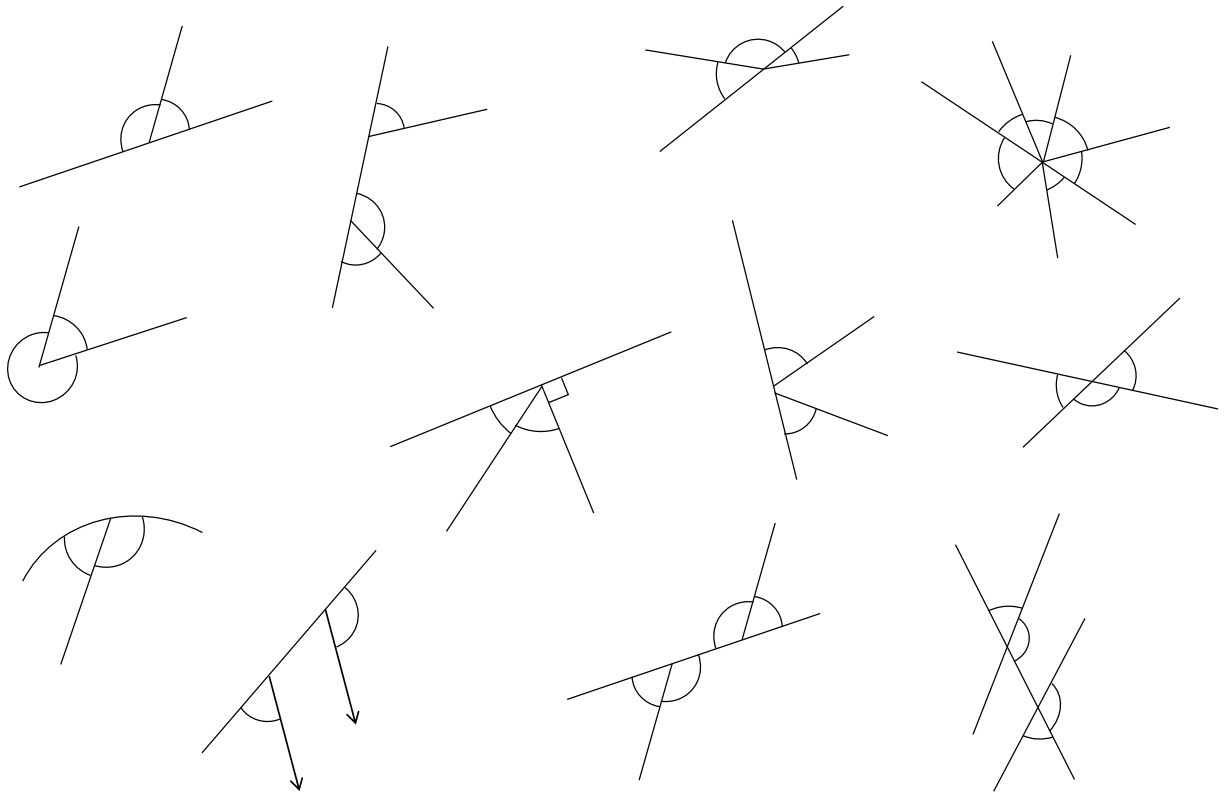
3.6 Angles on a Straight Line

In this section you will look at angles on a straight line.

Fluency Practice

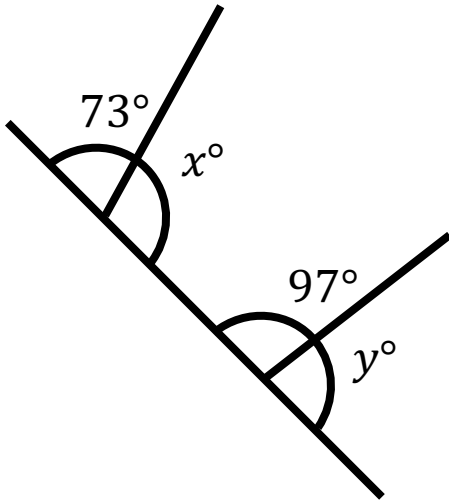
Highlight any angles that would add to 180°

Diagrams not drawn accurately



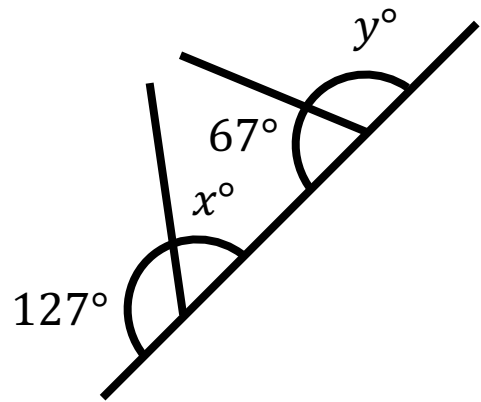
Worked Example

Find the values of x and y

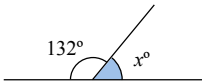
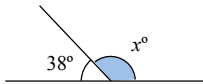
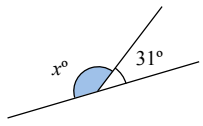
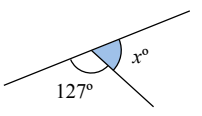
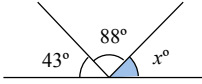
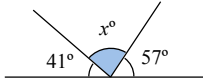
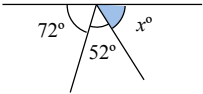
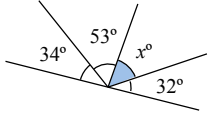
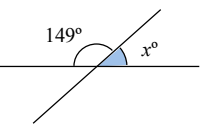
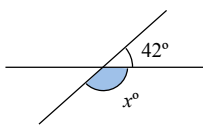
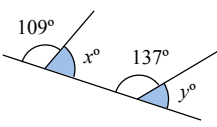
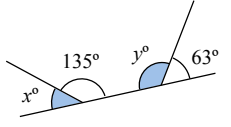


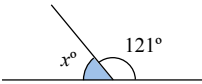
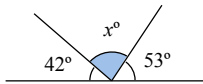
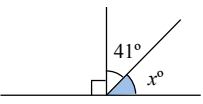
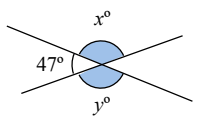
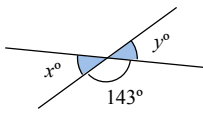
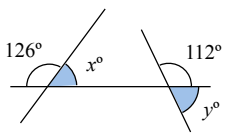
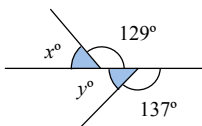
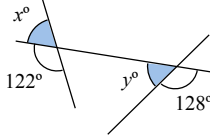
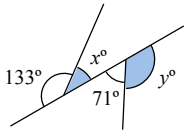
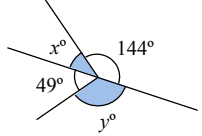
Your Turn

Find the values of x and y



Fluency Practice

A1 Find the value x 	A2 Find the value x 	A3 Find the value x 	A4 Find the value x 
B1 Find the value x 	B2 Find the value x 	B3 Find the value x 	B4 Find the value x 
C1 Find the value x 	C2 Find the value x 	C3 Find the values of x and y 	C4 Find the values of x and y 

A1 Find the value x 	A2 Find the value x 	A3 Find the value x 	A4 Three angles measure 77° , 41° and 52° . Do they form a straight line? Explain your answer.
B1 Find the values of x and y 	B2 Four angles measure 53° , 61° , 56° and 71° . Which three can be put together to form a straight line?	B3 Find the values of x and y 	B4 Find the values of x and y 
C1 Find the values of x and y 	C2 Find the values of x and y 	C3 Find the values of x and y 	C4 Find the values of x and y 

3.7 Angles around a Point

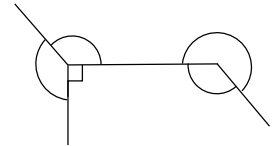
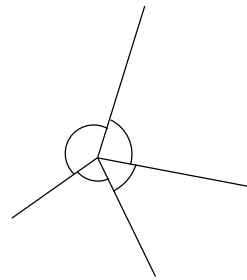
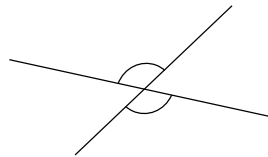
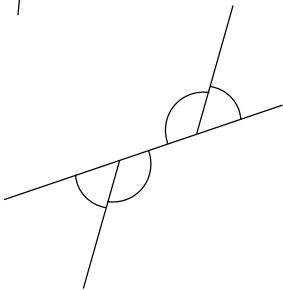
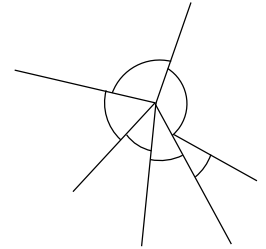
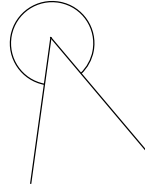
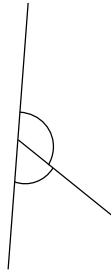
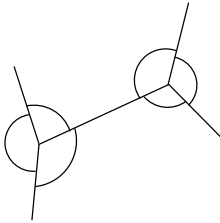
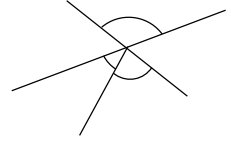
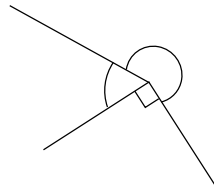
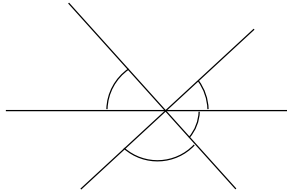
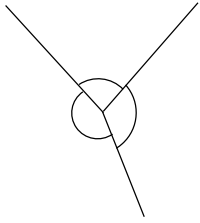
In this section you will look at angles around a point.

It is thought the number of degrees in a full turn came about due to the Ancient Persians having 360 days in their year.

Fluency Practice

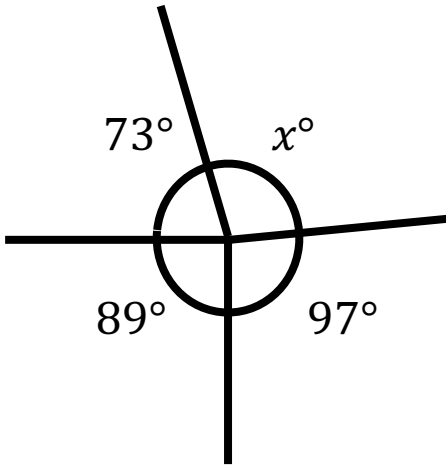
Highlight any angles that would add to 360°

Diagrams not drawn accurately



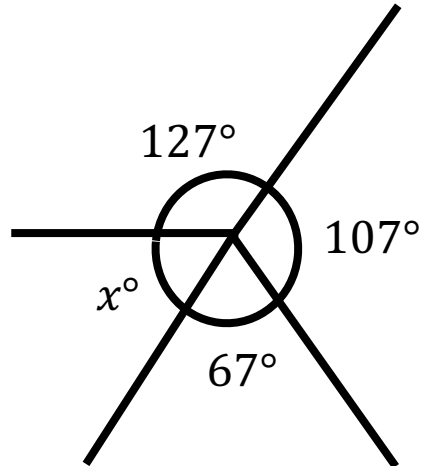
Worked Example

Find the value of x

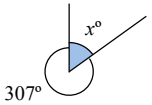
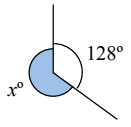
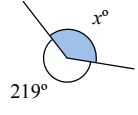
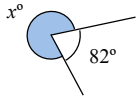
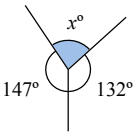
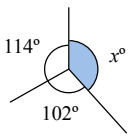
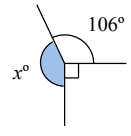
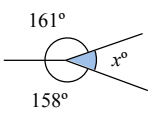
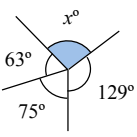
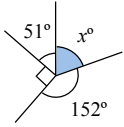
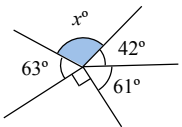
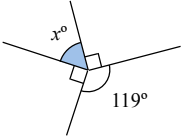


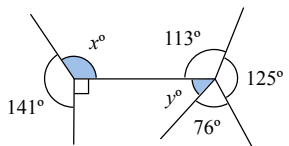
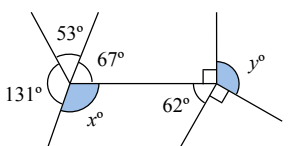
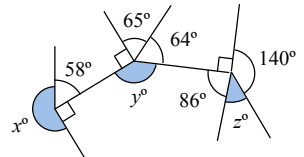
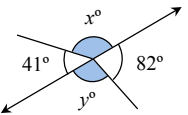
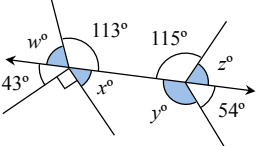
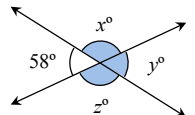
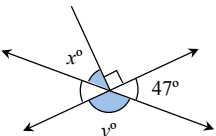
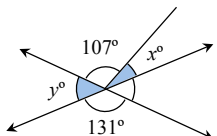
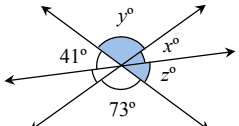
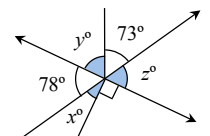
Your Turn

Find the value of x



Fluency Practice

A1 Find the value x 	A2 Find the value x 	A3 Find the value x 	A4 Find the value x 
B1 Find the value x 	B2 Find the value x 	B3 Find the value x 	B4 Find the value x 
C1 Find the value of x 	C2 Find the value of x 	C3 Find the value of x 	C4 Find the value of x 

A1 Three angles measure 97° , 145° and 118° . Do these three angles fit exactly around a point? Explain your answer.	A2 Find the values of x and y 	A3 Find the values of x and y 	A4 Find the values of x , y and z 
B1 Find the values of x and y 	B2 Find the values of w , x , y and z 	B3 Five angles measure 78° , 95° , 113° , 162° and 187° . Which of them can be put together to fit exactly around a point?	B4 Find the values of x , y and z 
C1 Find the values of x and y 	C2 Find the values of x and y 	C3 Find the values of x , y and z 	C4 Find the values of x , y and z 

3.8 Vertically Opposite Angles

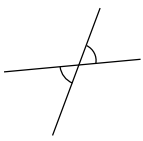
In this section you will look at vertically opposite angles.

Vertically opposite means opposite at a vertex.

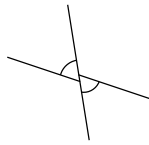
Fluency Practice

Decide which diagrams show vertically opposite angles

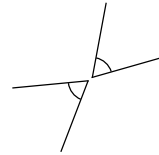
Diagrams not drawn accurately



Vertically Opposite	<input type="checkbox"/>
Not Vertically Opposite	<input type="checkbox"/>
Cannot Tell	<input type="checkbox"/>



Vertically Opposite	<input type="checkbox"/>
Not Vertically Opposite	<input type="checkbox"/>
Cannot Tell	<input type="checkbox"/>



Vertically Opposite	<input type="checkbox"/>
Not Vertically Opposite	<input type="checkbox"/>
Cannot Tell	<input type="checkbox"/>

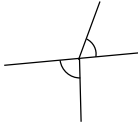
Explain your reason

Explain your reason

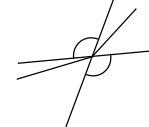
Explain your reason



Vertically Opposite	<input type="checkbox"/>
Not Vertically Opposite	<input type="checkbox"/>
Cannot Tell	<input type="checkbox"/>



Vertically Opposite	<input type="checkbox"/>
Not Vertically Opposite	<input type="checkbox"/>
Cannot Tell	<input type="checkbox"/>

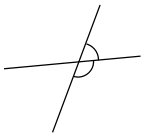


Vertically Opposite	<input type="checkbox"/>
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Cannot Tell	<input type="checkbox"/>

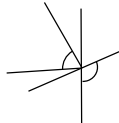
Explain your reason

Explain your reason

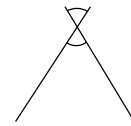
Explain your reason



Vertically Opposite	<input type="checkbox"/>
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Cannot Tell	<input type="checkbox"/>



Vertically Opposite	<input type="checkbox"/>
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Cannot Tell	<input type="checkbox"/>



Vertically Opposite	<input type="checkbox"/>
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Cannot Tell	<input type="checkbox"/>

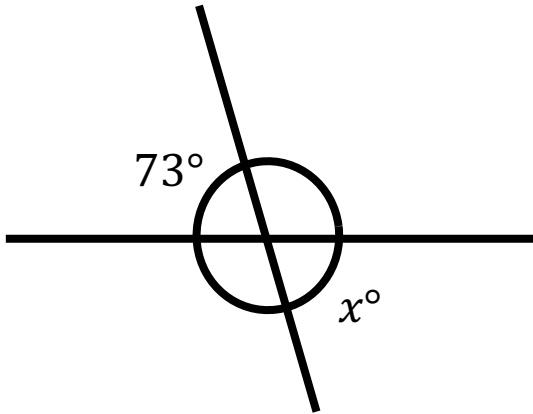
Explain your reason

Explain your reason

Explain your reason

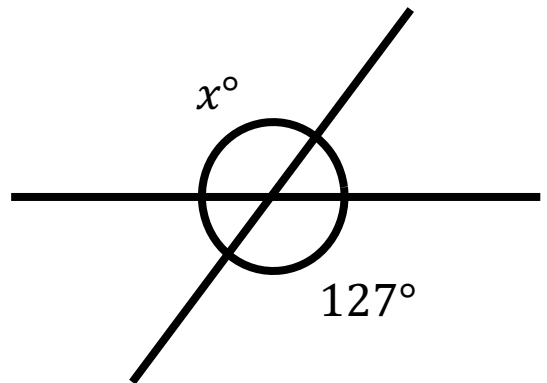
Worked Example

Find the value of x



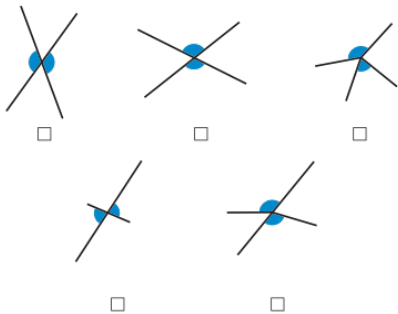
Your Turn

Find the value of x



Fluency Practice

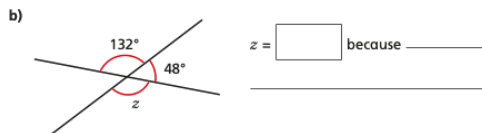
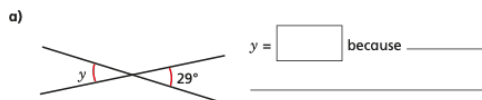
2 Tick the pairs of angles that are vertically opposite.



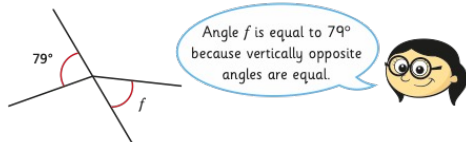
Compare answers with a partner.

3 Work out the sizes of the unknown angles.

Give reasons for your answers.



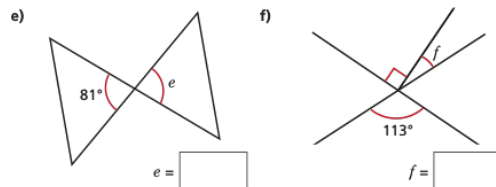
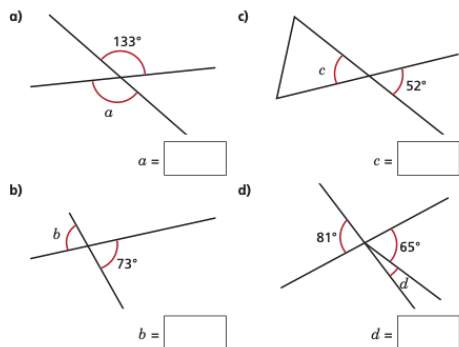
4 Annie is working out the size of angle f .



Do you agree with Annie? _____

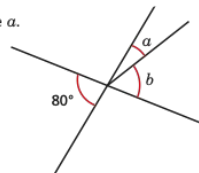
Explain your answer.

5 Work out the unknown angles.



Talk about your reasons with a partner.

6 Angle b is three times the size of angle a .

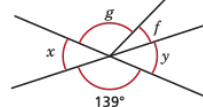


Work out the sizes of angles a and b .

$a = \square$ $b = \square$

7 Angle f is one quarter of the size of angle g .

Angle f is 28° .



Are angles x and y vertically opposite? _____

Explain your answer.

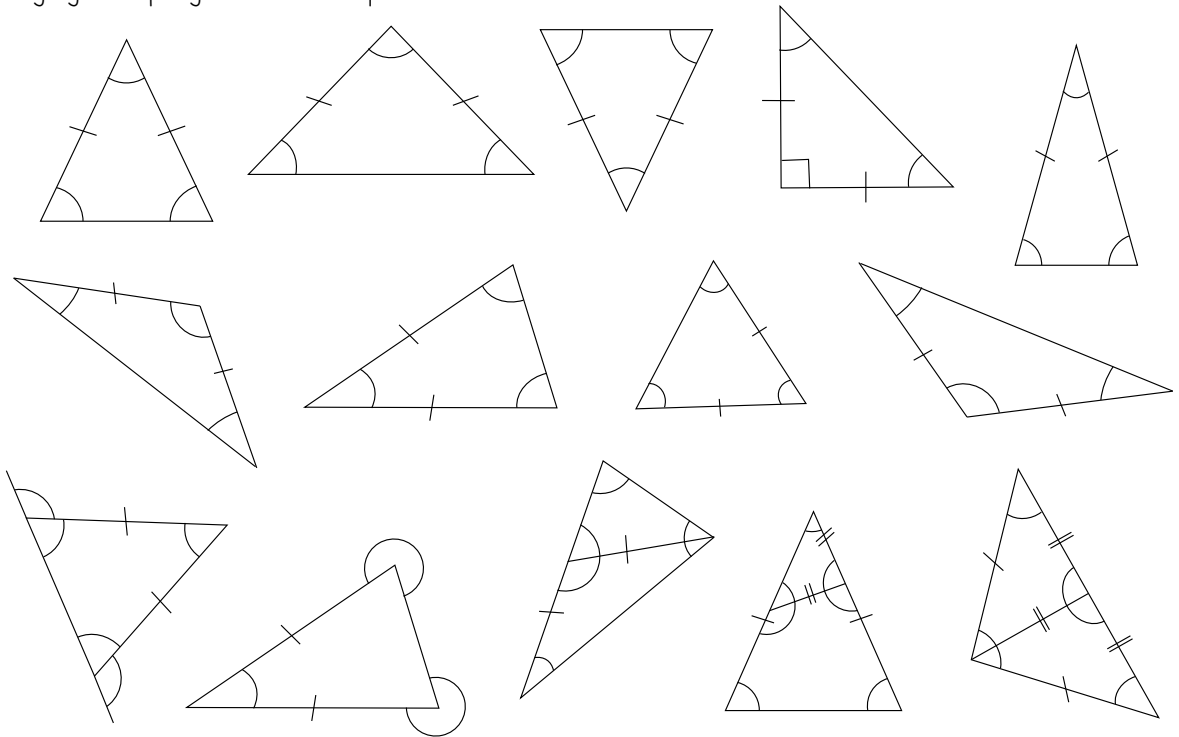
3.9 Angles in Triangles

In this section you will look at angles in triangles.

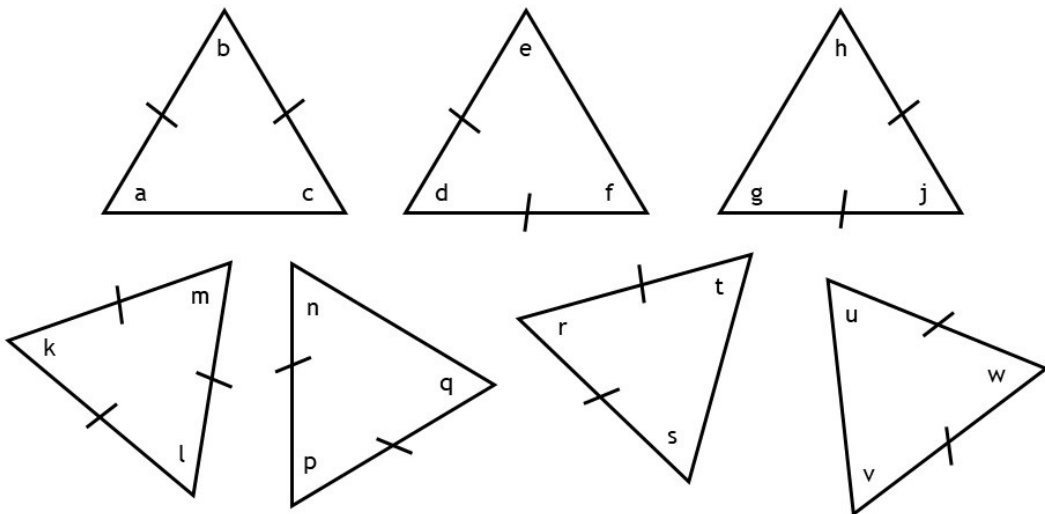
Fluency Practice

Highlight any angles that are equal in size

Diagrams are not drawn accurately

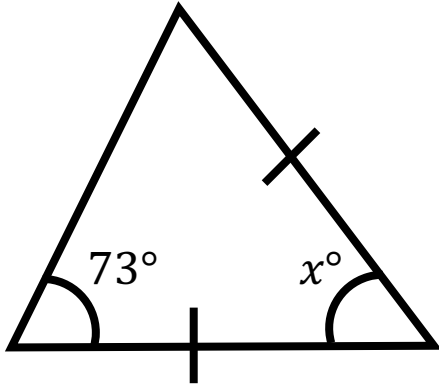


For each triangle, write down the letters of the angles with equal value.



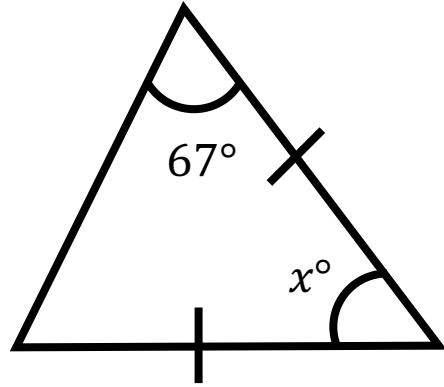
Worked Example

Find the value of x



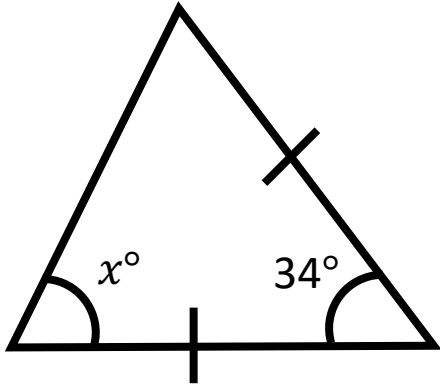
Your Turn

Find the value of x



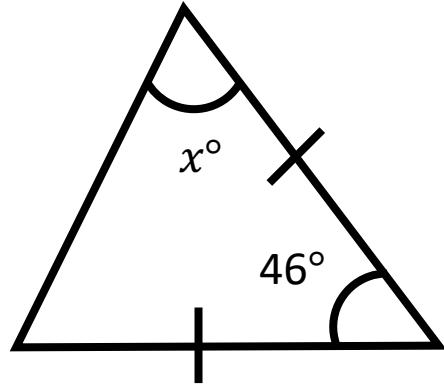
Worked Example

Find the value of x



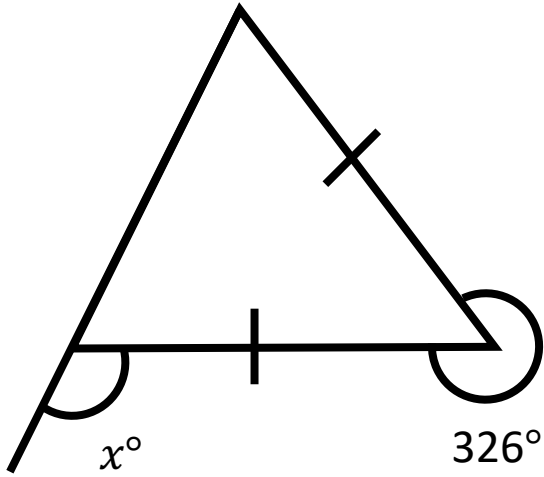
Your Turn

Find the value of x



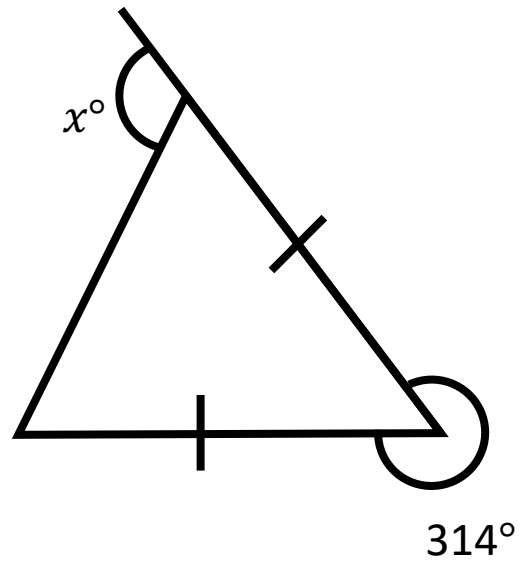
Worked Example

Find the value of x

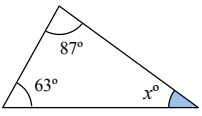
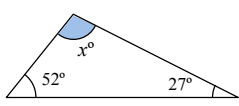
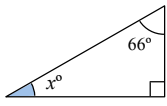
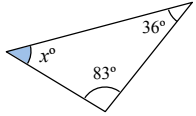
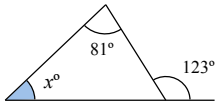
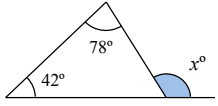
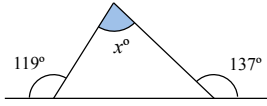
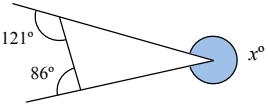

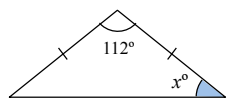
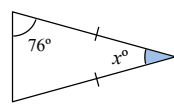
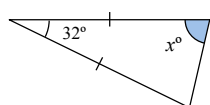
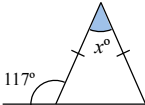
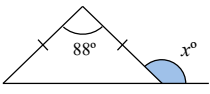
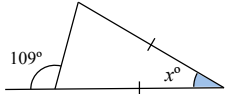
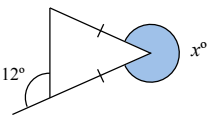


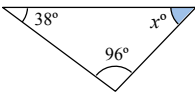
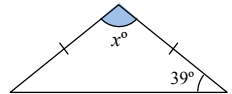
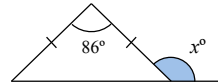
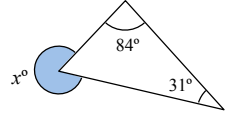
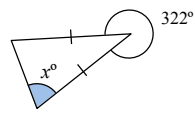
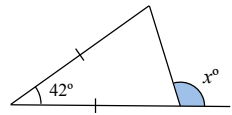
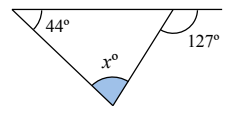
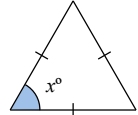
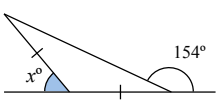
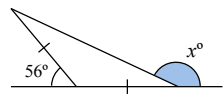
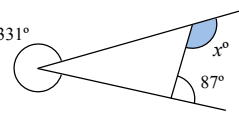
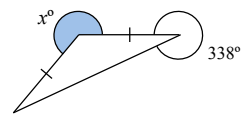
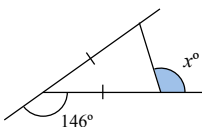
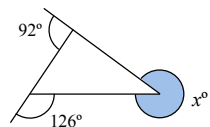
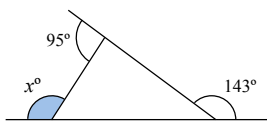
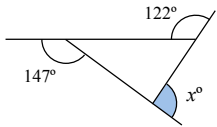
Your Turn

Find the value of x

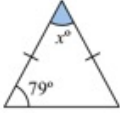
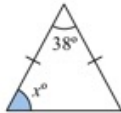

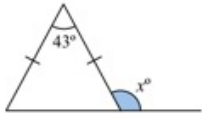
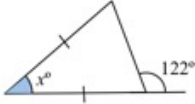
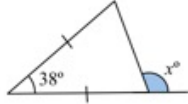
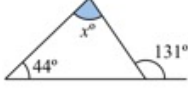
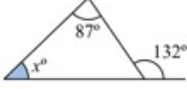

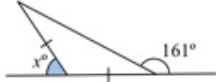

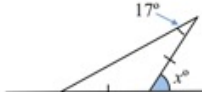

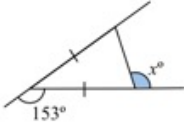
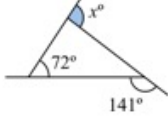



Fluency Practice

A1 Work out the value of x . 	A2 Work out the value of x . 	A3 Work out the value of x . 	A4 Work out the value of x . 
B1 Work out the value of x . 	B2 Work out the value of x . 	B3 Work out the value of x . 	B4 Work out the value of x . 
C1 Work out the value of x . 	C2 Work out the value of x . 	C3 Work out the value of x . 	C4 Work out the value of x . 
D1 Work out the value of x . 	D2 Work out the value of x . 	D3 Work out the value of x . 	D4 Work out the value of x . 

A1 Work out the value of x . 	A2 Work out the value of x . 	A3 Work out the value of x . 	A4 Work out the value of x . 
B1 Work out the value of x . 	B2 Work out the value of x . 	B3 Work out the value of x . 	B4 Work out the value of x . 
C1 Work out the value of x . 	C2 Work out the value of x . 	C3 Work out the value of x . 	C4 Work out the value of x . 
D1 Work out the value of x . 	D2 Work out the value of x . 	D3 Work out the value of x . 	D4 Work out the value of x . 

Fluency Practice

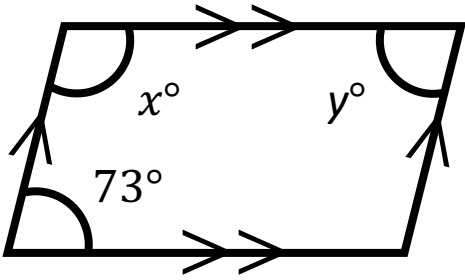
A1 Work out the value of x . 	A2 Work out the value of x . 	A3 Work out the value of x . 	A4 Work out the value of x . 
B1 Work out the value of x . 	B2 Work out the value of x . 	B3 Work out the value of x . 	B4 Work out the value of x . 
C1 Work out the value of x . 	C2 Work out the value of x . 	C3 Work out the value of x . 	C4 Work out the value of x . 
D1 Work out the value of x . 	D2 Work out the value of x . 	D3 Work out the value of x . 	D4 Work out the value of x . 

3.10 Angles in Quadrilaterals

In this section you will look at angles in quadrilaterals.

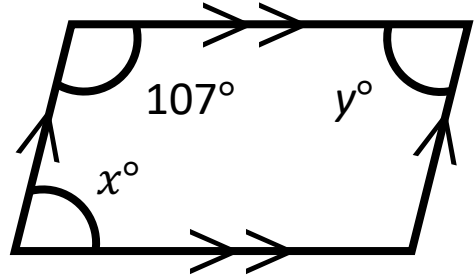
Worked Example

Find the values of x and y



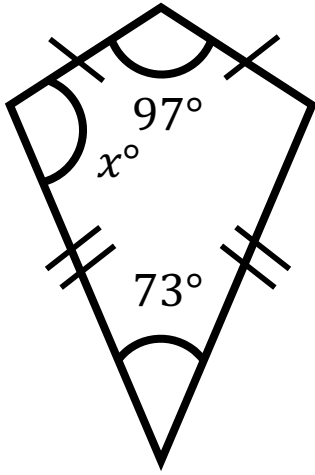
Your Turn

Find the values of x and y



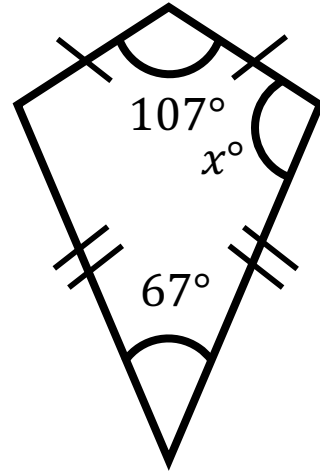
Worked Example

Find the value of x



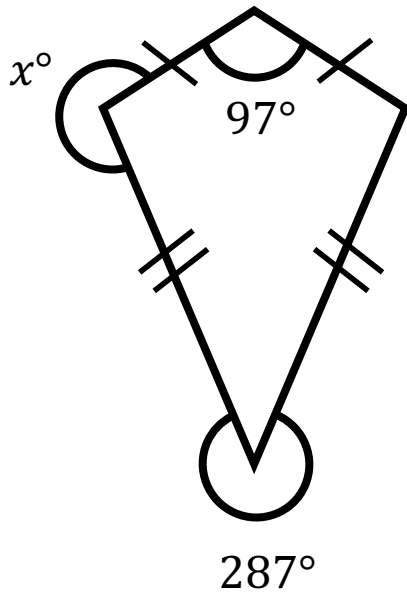
Your Turn

Find the value of x



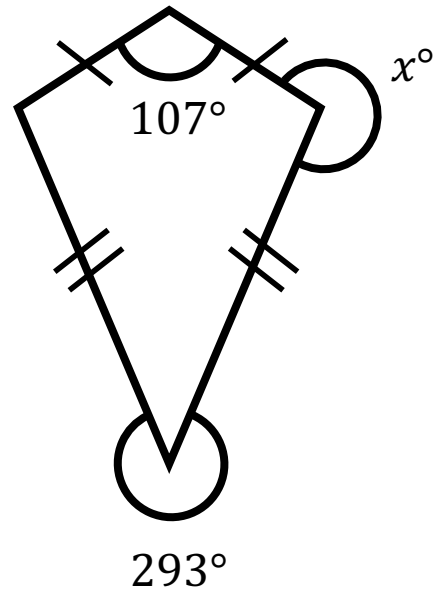
Worked Example

Find the value of x



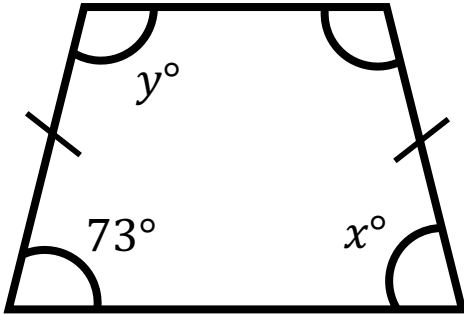
Your Turn

Find the value of x



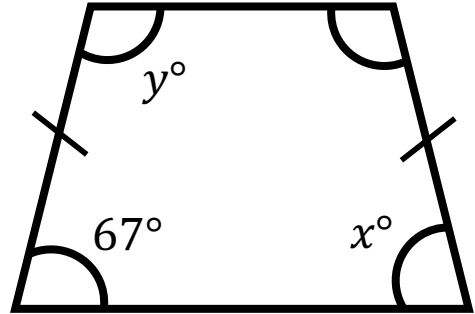
Worked Example

Find the values of x and y



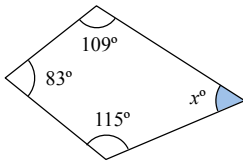
Your Turn

Find the values of x and y

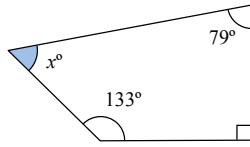


Fluency Practice

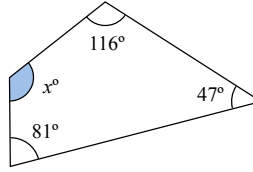
A1 Work out the value of x



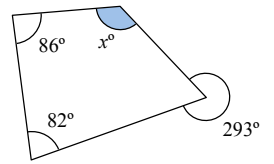
A2 Work out the value of x



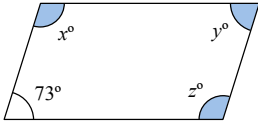
A3 Work out the value of x



A4 Work out the value of x

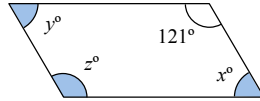


B1 This is a parallelogram.



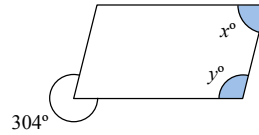
Work out the values of x , y and z

B2 This is a parallelogram.



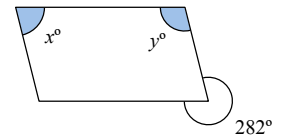
Work out the values of x , y and z

B3 This is a parallelogram.



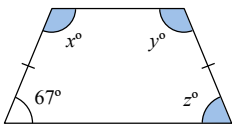
Work out the values of x and y

B4 This is a parallelogram.



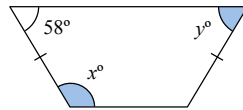
Work out the values of x and y

C1 This is an isosceles trapezium.



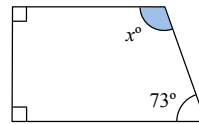
Work out the values of x , y and z

C2 This is an isosceles trapezium.



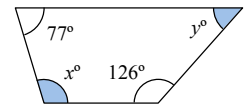
Work out the values of x and y

C3 This is a trapezium.



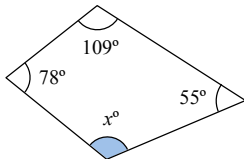
Work out the value of x

C4 This is a trapezium.



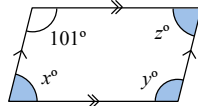
Work out the values of x and y

A1 This quadrilateral is irregular



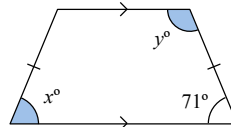
Work out the value of x

A2 This is a parallelogram.



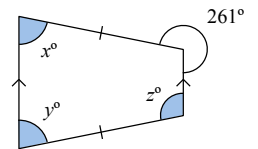
Work out the values of x , y and z

A3 This is an isosceles trapezium.



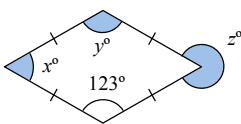
Work out the values of x and y

A4 This is an isosceles trapezium.



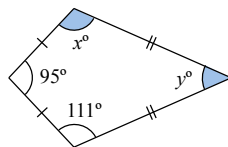
Work out the values of x , y and z

B1 This is a rhombus.



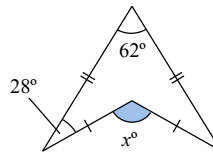
Work out the values of x , y and z

B2 This is a kite.



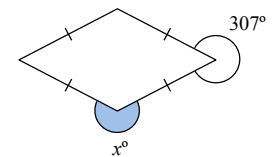
Work out the values of x and y

B3 This is an arrowhead (delta).



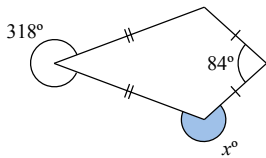
Work out the value of x

B4 This is a rhombus.



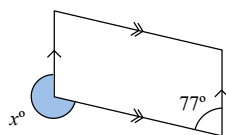
Work out the value of x

C1 This is a kite.



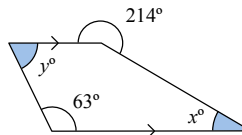
Work out the value of x

C2 This is a parallelogram.



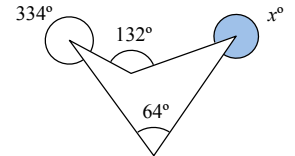
Work out the value of x

C3 This is a trapezium.



Work out the values of x and y

C4 This quadrilateral is irregular.



Work out the value of x