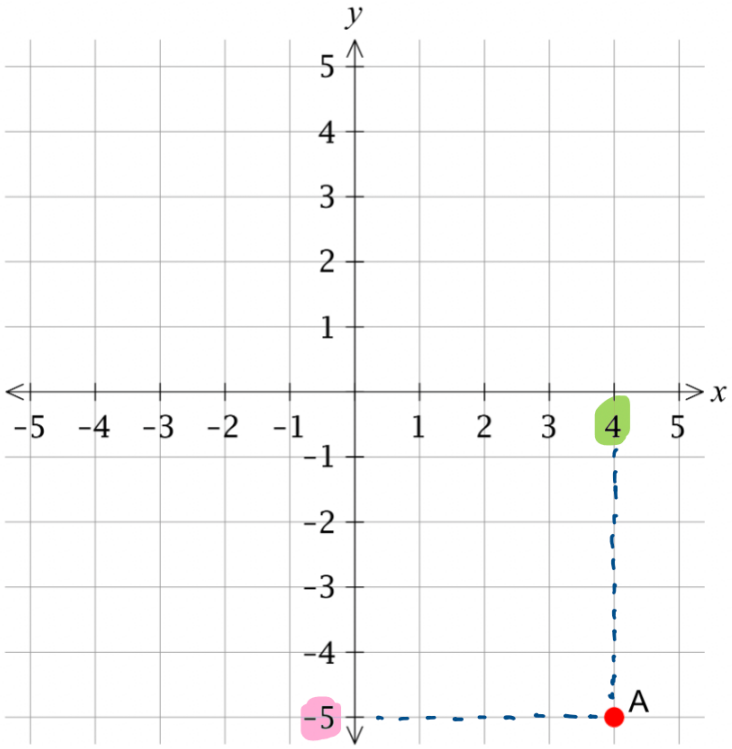
Ex 9.1

No calculators are permitted in this exercise.

Worked Example for Simple Questions

Name:



The coordinates of the point A are:

Coordinates are given as (x, y)

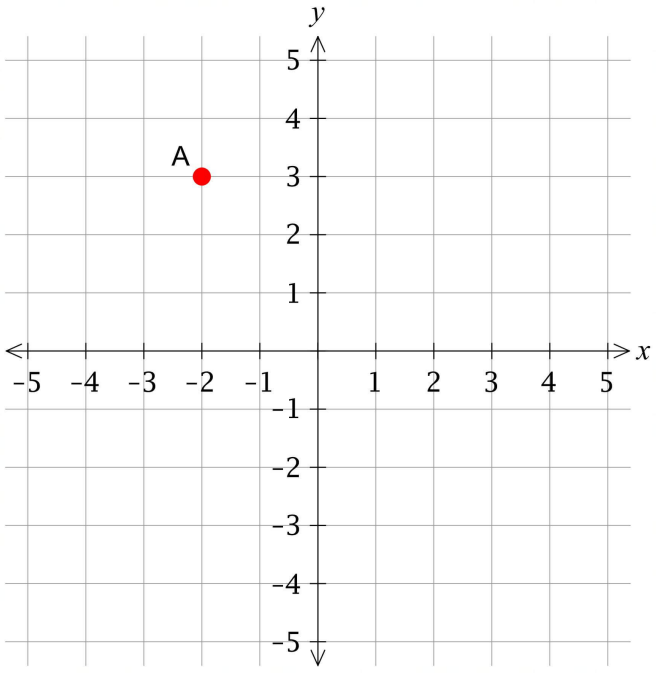
$\Rightarrow (4, -5)$

A	B	C
$(-5, 4)$	$(4, -5)$	$(-4, -5)$

Copyright © Maths Pathway 2025.

Coordinate Points

Question 1



The coordinates of the point A are:

Circle the correct option

A

$(-2, -3)$

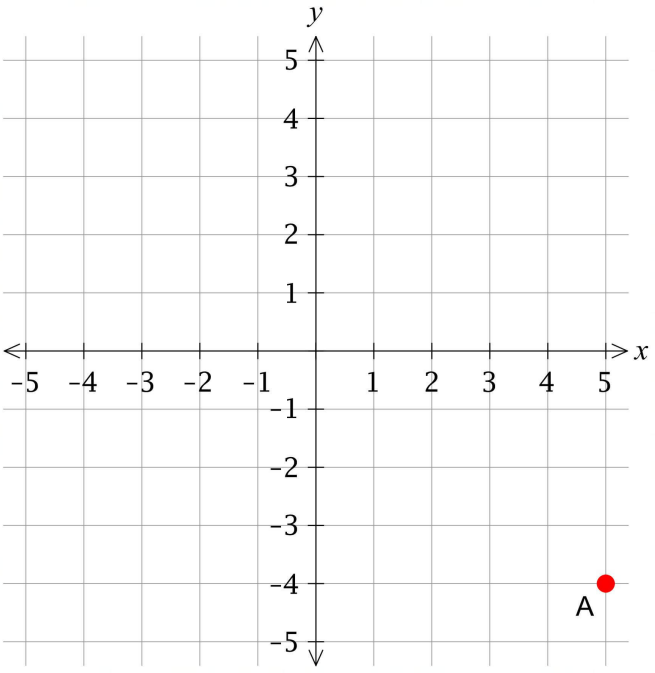
B

$(-2, 3)$

C

$(3, -2)$

Question 2



The coordinates of the point A are:

Circle the correct option

A

$(5, -4)$

B

$(-4, 5)$

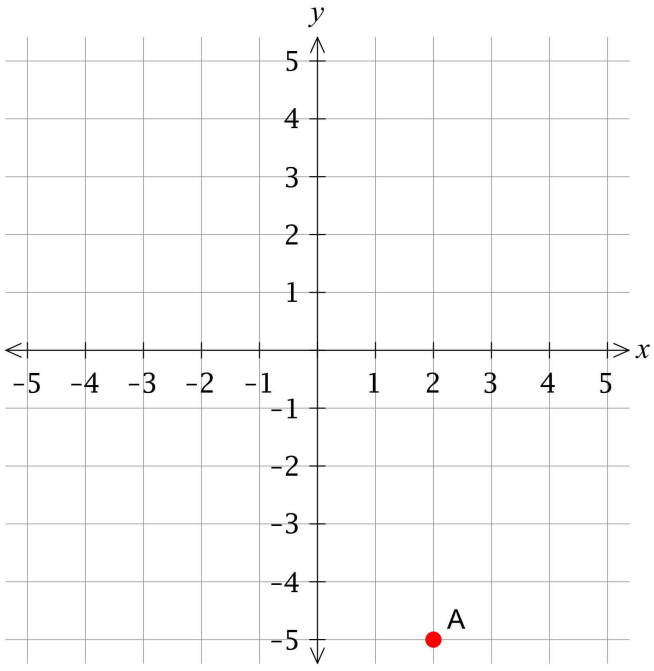
C

$(-5, -4)$

Copyright © Maths Pathway 2025.

Coordinate Points

Question 3



The coordinates of the point A are:

Circle the correct option

A

$(-5, 2)$

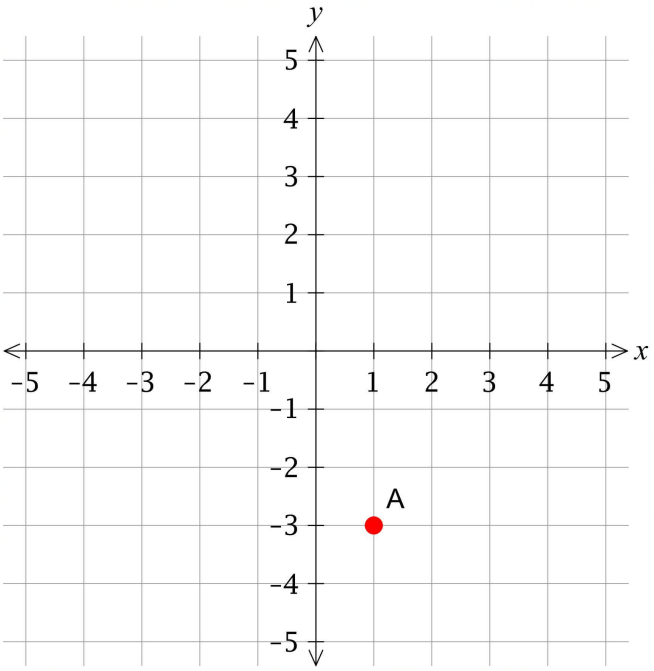
B

$(-2, -5)$

C

$(2, -5)$

Question 4



The coordinates of the point A are:

Circle the correct option

A

$(-3, 1)$

B

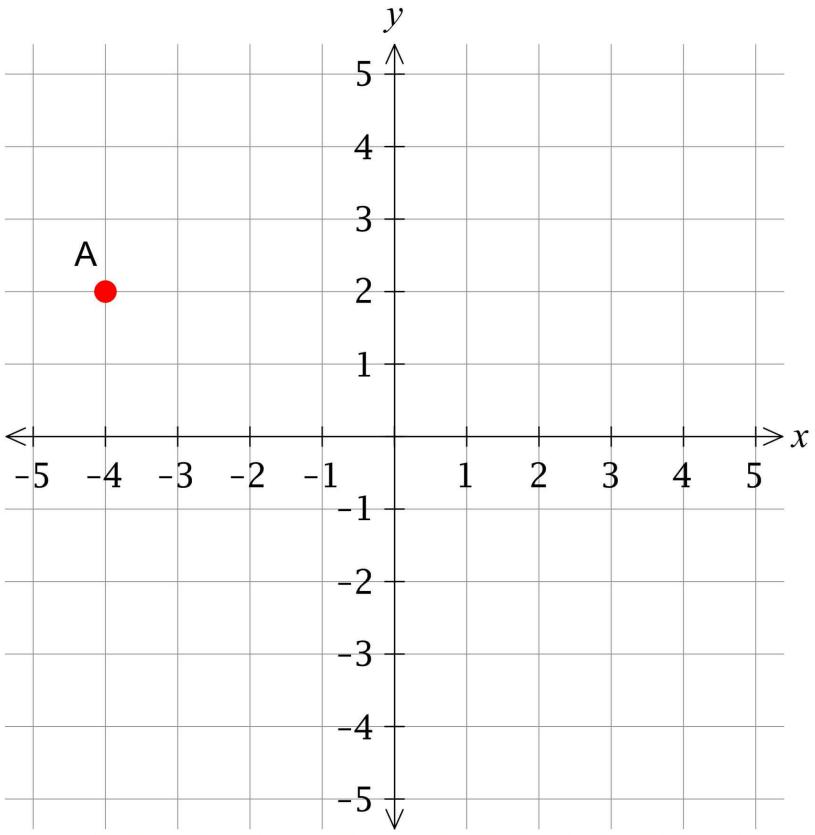
$(1, -3)$

C

$(-1, -3)$

Copyright © Maths Pathway 2025.

Question 5



The coordinates of the point A are:

Circle the correct option

A

$(-4, -2)$

B

$(2, -4)$

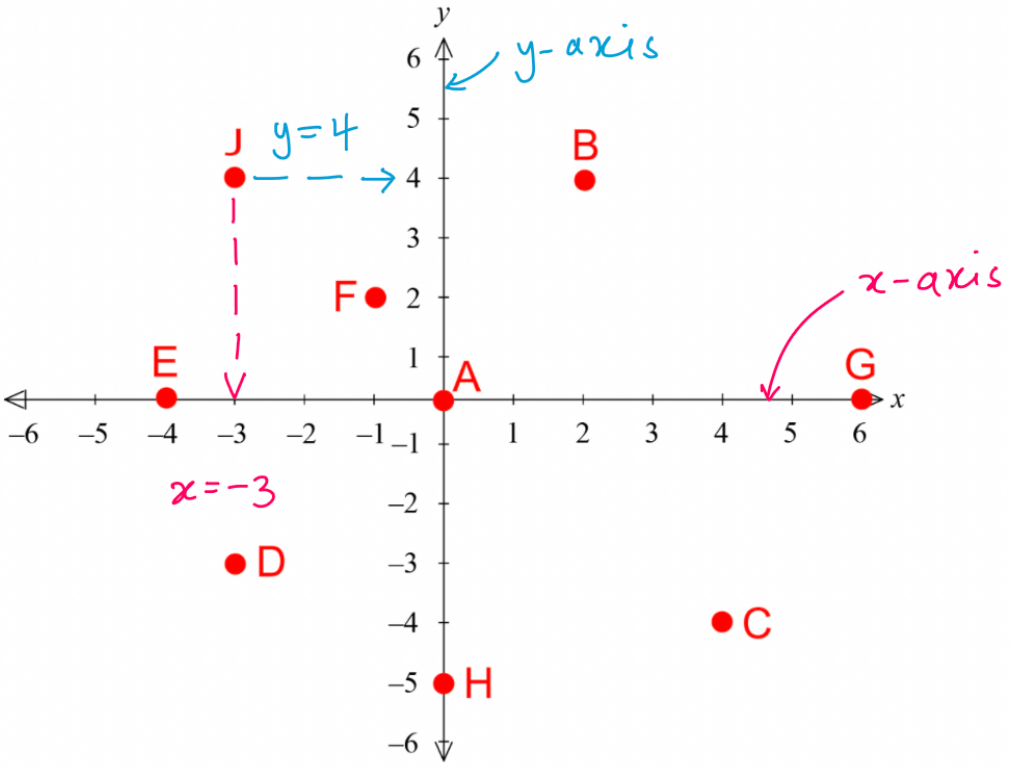
C

$(-4, 2)$

Copyright © Maths Pathway 2025.

Worked Example for Standard Questions

Write the coordinate of Point J.



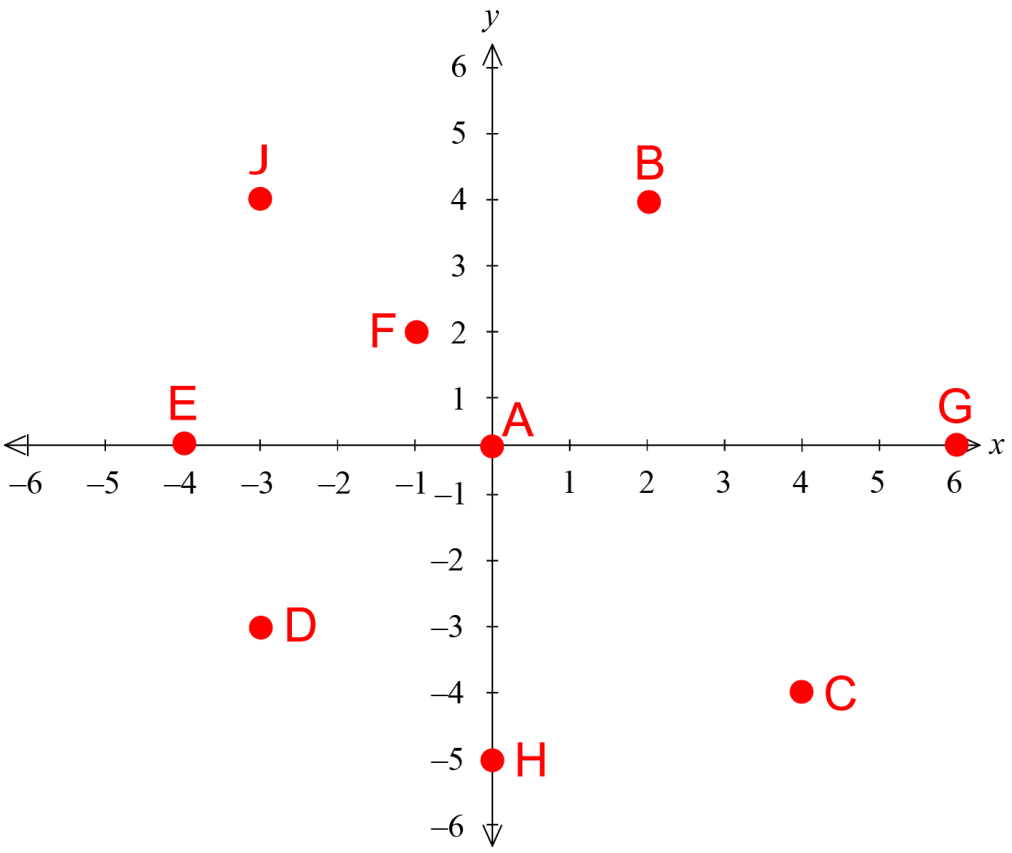
(-3 , 4)

For Point J
The x-value is −3.
The y-value is 4.
You write a co-ordinate as (x, y).
(x, y) = (−3, 4) for Point J.

Copyright © Maths Pathway 2025.

Question 6

Write the coordinate of Point H.

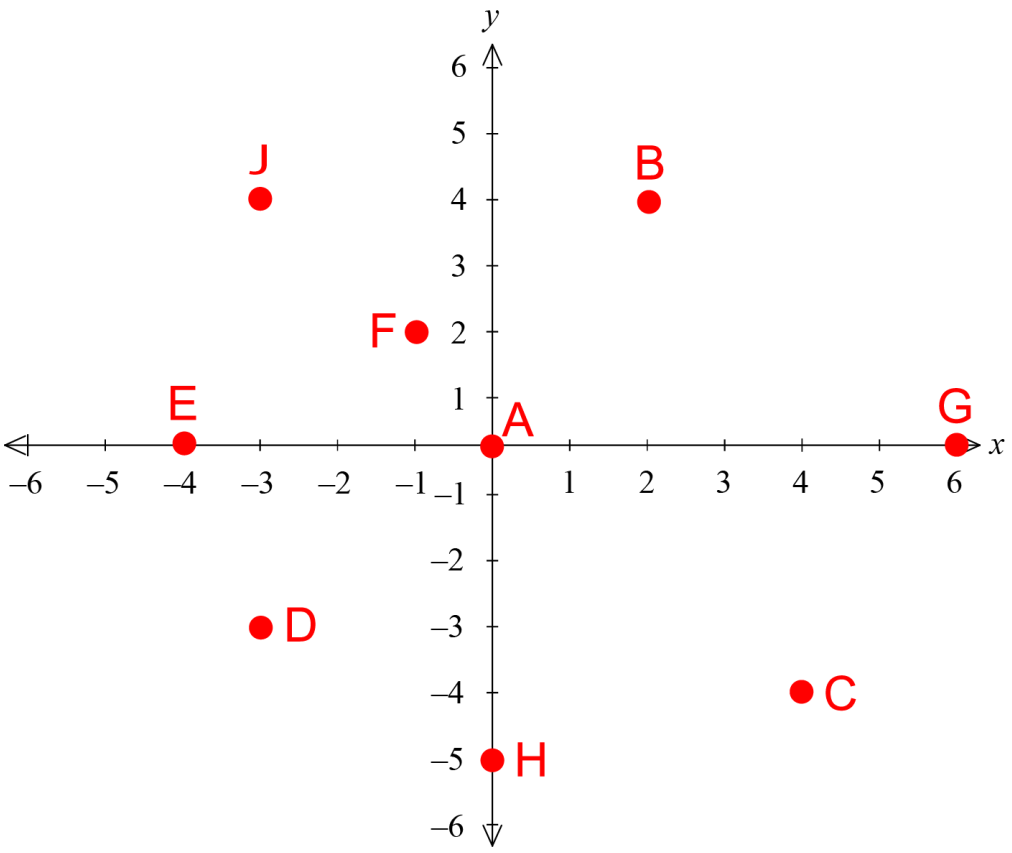


(,)

Copyright © Maths Pathway 2025.

Question 7

Write the coordinate of Point G.

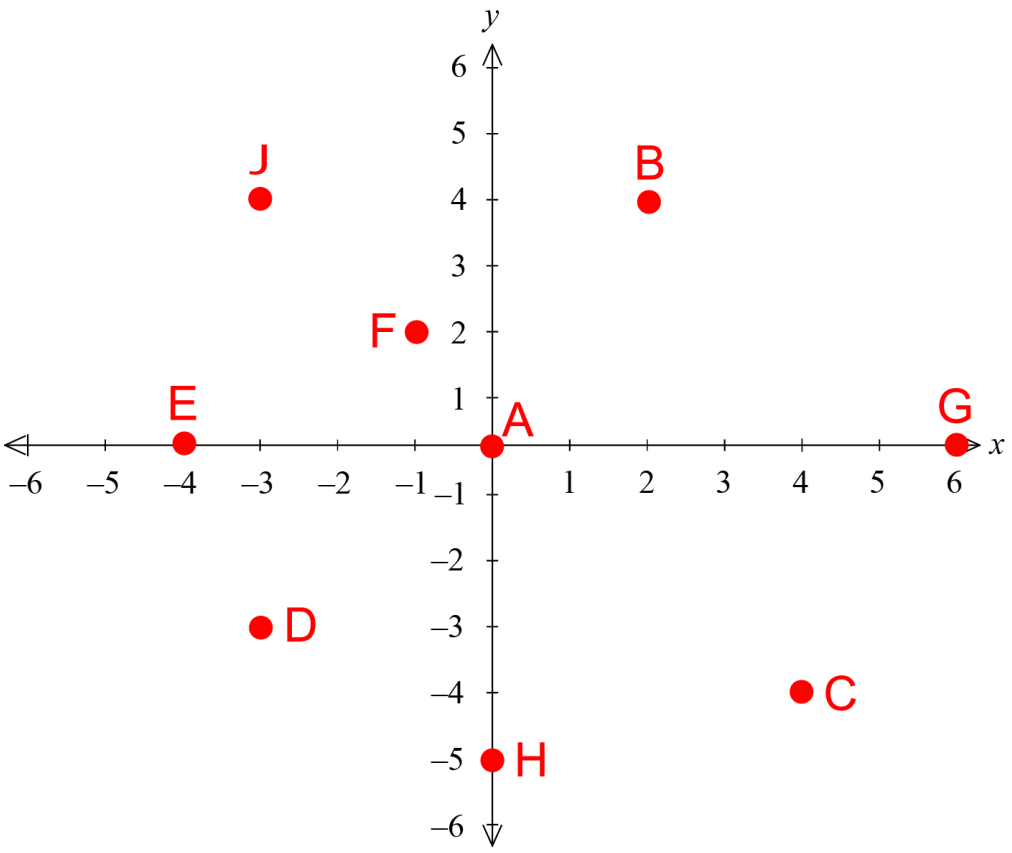


(,)

Copyright © Maths Pathway 2025.

Question 8

Write the coordinate of Point A.

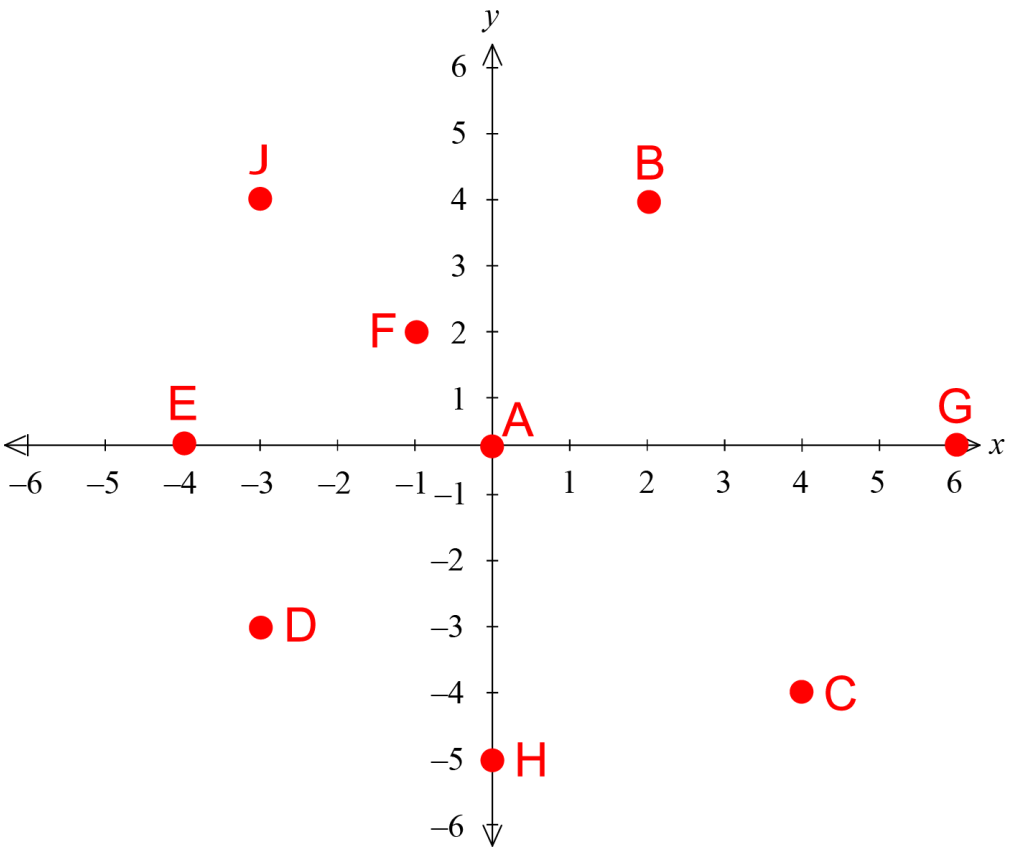


(,)

Copyright © Maths Pathway 2025.

Question 9

Write the coordinate of Point E.

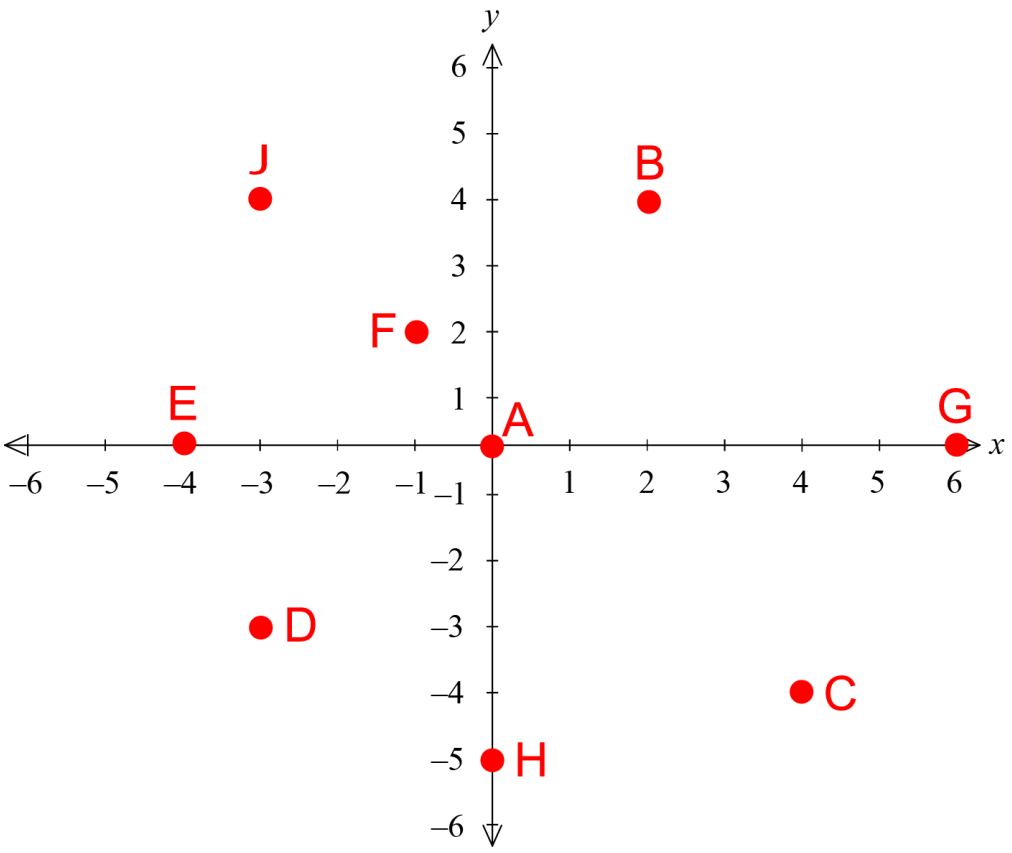


(,)

Copyright © Maths Pathway 2025.

Question 10

Write the coordinate of Point D.



(,)

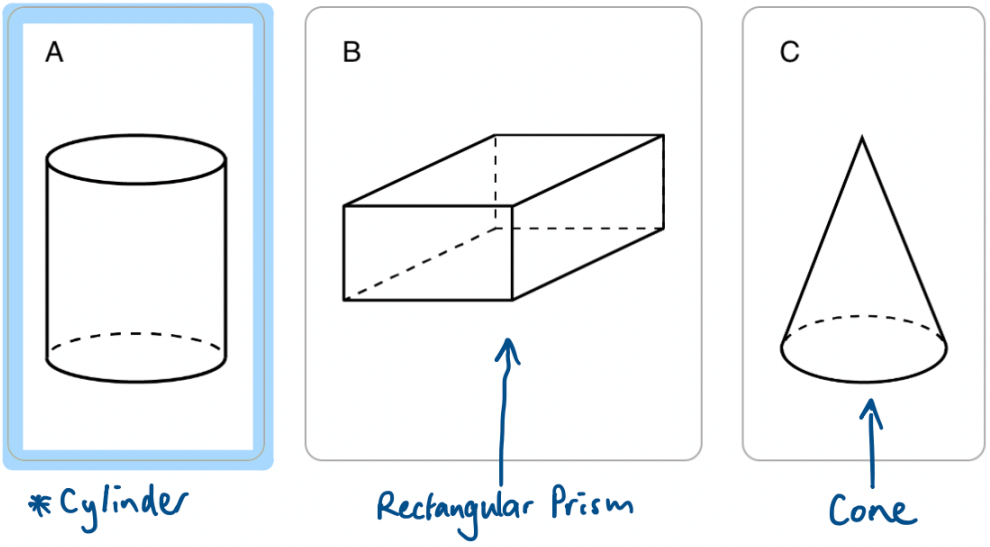
Copyright © Maths Pathway 2025.

Ex 9.3

No calculators are permitted in this exercise.

Worked Example for Simple Questions

Which 3D shape is a **cylinder**?



Copyright © Maths Pathway 2025.

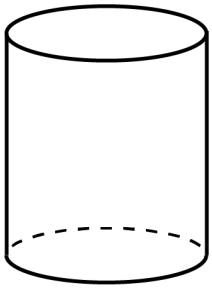
3D Shapes

Question 1

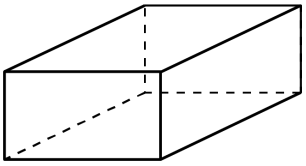
Which 3D shape is a **cone**?

Circle the correct option

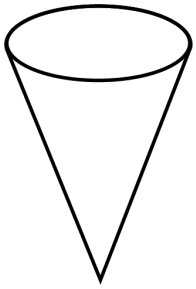
A



B



C

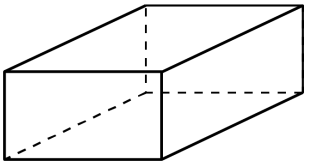


Question 2

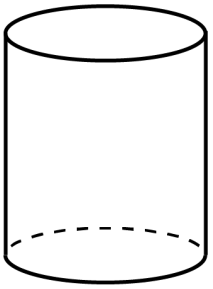
Which 3D shape is a **cylinder**?

Circle the correct option

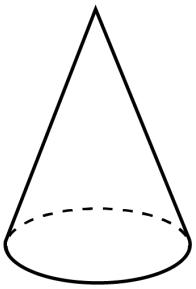
A



B



C



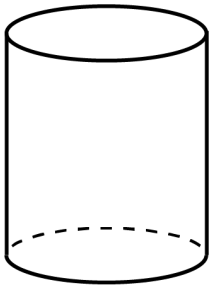
Copyright © Maths Pathway 2025.

Question 3

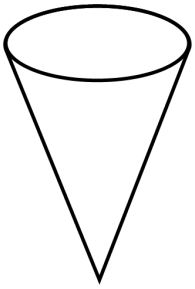
Which 3D shape is a **cone**?

Circle the correct option

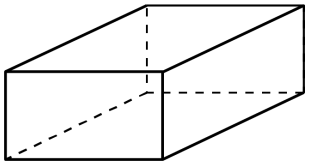
A



B



C

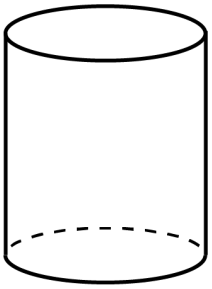


Question 4

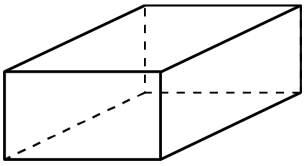
Which 3D shape is a **rectangular prism**?

Circle the correct option

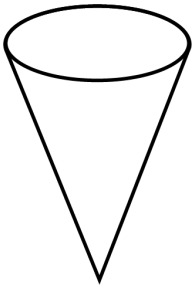
A



B



C



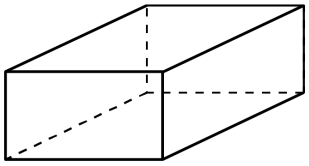
Copyright © Maths Pathway 2025.

Question 5

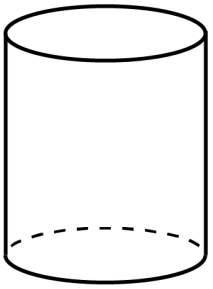
Which 3D shape is a **rectangular prism**?

Circle the correct option

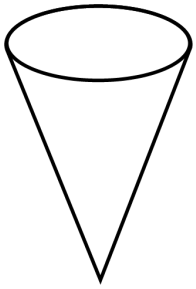
A



B



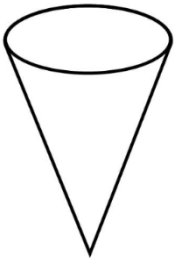
C



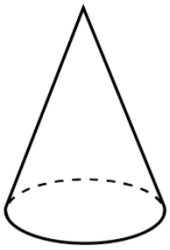
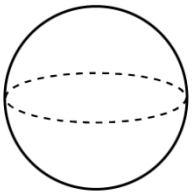
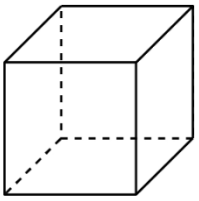
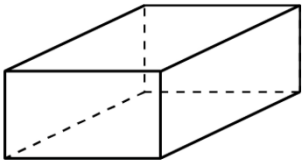
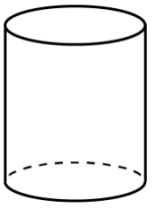
Copyright © Maths Pathway 2025.

Worked Example for Standard Questions

This shape is a:



A	B	C	D
rectangular prism	sphere	cylinder	cone

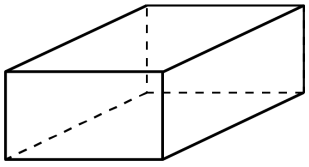
cone sphere cube rectangular prism cylinder

A cone has a circular base and a curved surface.

Copyright © Maths Pathway 2025.

Question 6

This shape is a:



Circle the correct option

A

rectangular prism

B

sphere

C

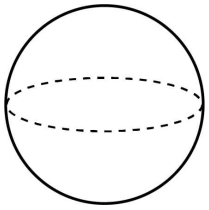
cylinder

D

cone

Question 7

This shape is a:



Circle the correct option

A

rectangular prism

B

sphere

C

cylinder

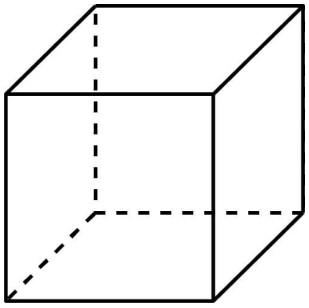
D

cone

Copyright © Maths Pathway 2025.

Question 8

This shape is a:



Circle the correct option

A

cube

B

sphere

C

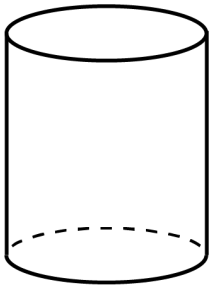
cylinder

D

cone

Question 9

This shape is a:



Circle the correct option

A

rectangular prism

B

sphere

C

cylinder

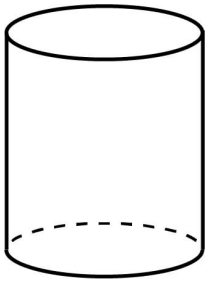
D

cone

Copyright © Maths Pathway 2025.

Question 10

This shape is a:



Circle the correct option

A

rectangular prism

B

sphere

C

cylinder

D

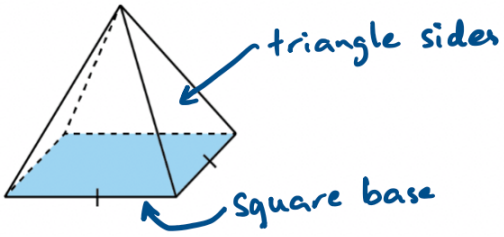
cone

Copyright © Maths Pathway 2025.

Ex 9.5

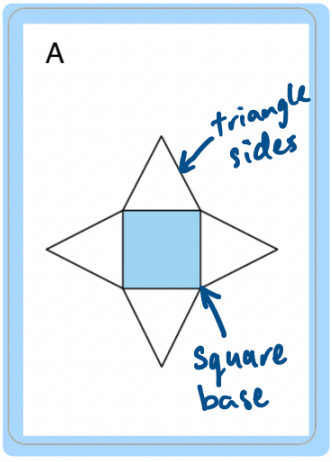
No calculators are permitted in this exercise.

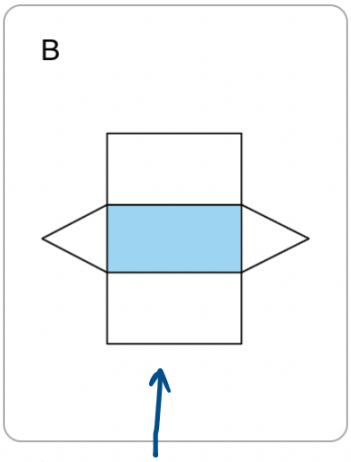
Worked Example for Simple Questions



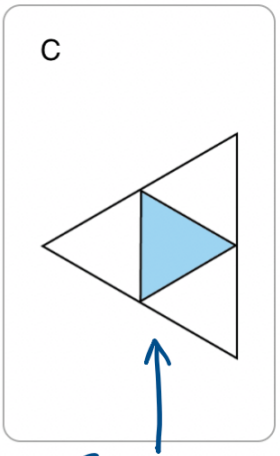
- Look at the shape of the base in the nets.
- Check if the sides are the correct shape

Which one could be the net of this **square-based pyramid**?





This is a triangular prism.

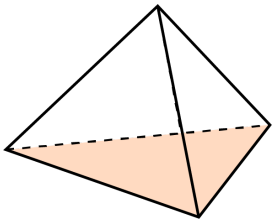


This is a tetrahedron or triangular-based pyramid.

Copyright © Maths Pathway 2025.

Nets

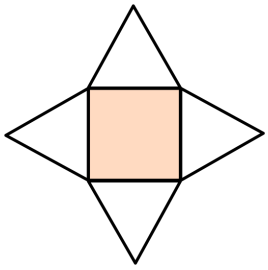
Question 1



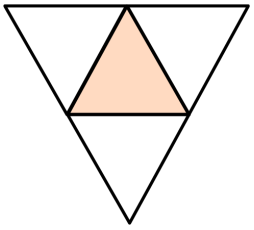
Which one could be the net of this **triangular-based pyramid**?

Circle the correct option

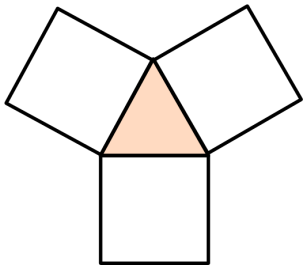
A



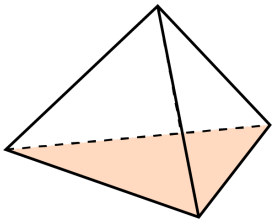
B



C



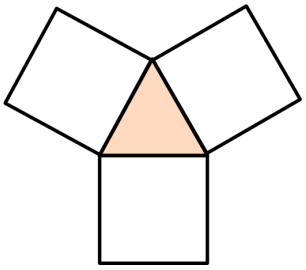
Question 2



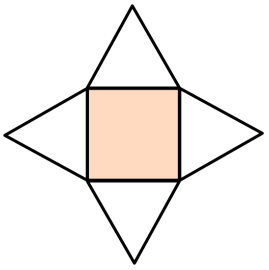
Which one could be the net of this **triangular-based pyramid**?

Circle the correct option

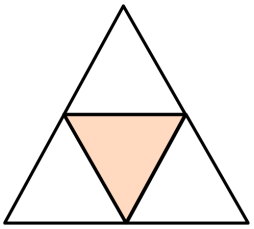
A



B

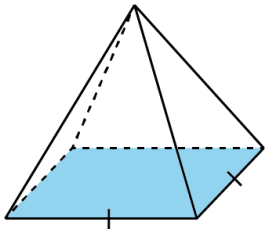


C



Copyright © Maths Pathway 2025.

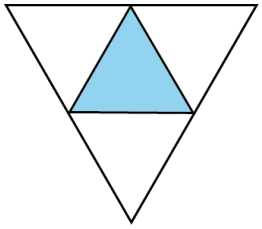
Question 3



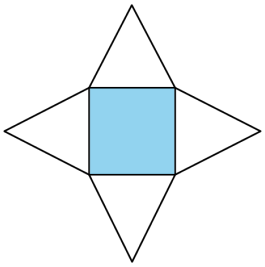
Which one could be the net of this **square-based pyramid**?

Circle the correct option

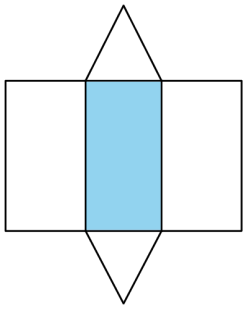
A



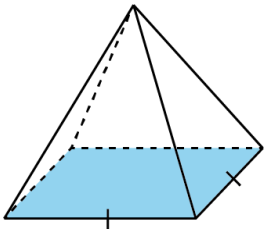
B



C



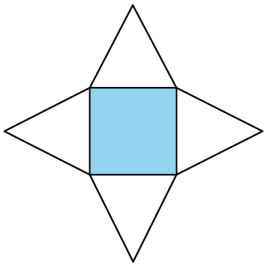
Question 4



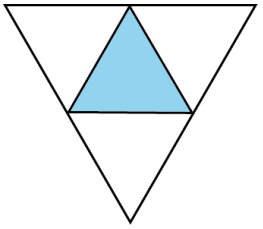
Which one could be the net of this **square-based pyramid**?

Circle the correct option

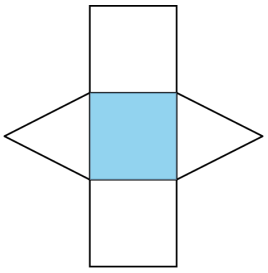
A



B

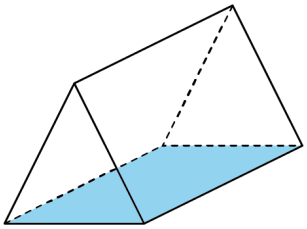


C



Copyright © Maths Pathway 2025.

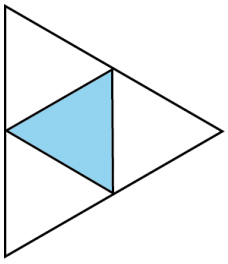
Question 5



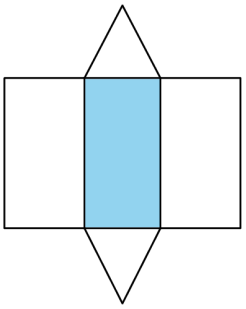
Which one could be the net of this **triangular prism**?

Circle the correct option

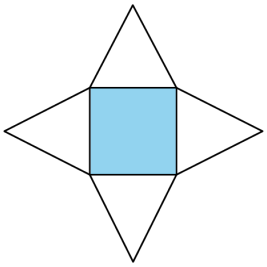
A



B



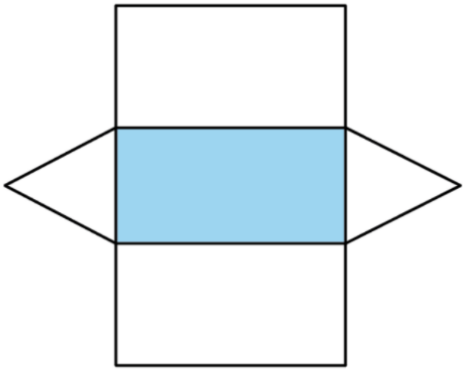
C



Copyright © Maths Pathway 2025.

Worked Example for Standard Questions

This is the net of a:



A

square based pyramid

B

triangular based pyramid

C

triangular prism

D

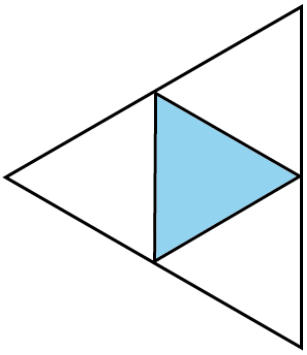
cylinder

A prism has a constant cross section.
A triangular prism has a triangular constant cross section.
The shape above is a triangular prism.

Copyright © Maths Pathway 2025.

Question 6

This is the net of a:

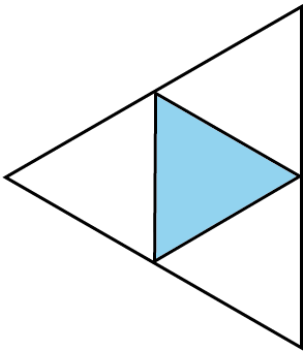


Circle the correct option

A	B
square based pyramid	triangular based pyramid
C	**D**
triangular prism	cylinder

Question 7

This is the net of a:



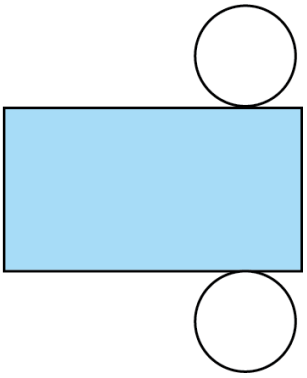
Circle the correct option

A	B
square based pyramid	triangular based pyramid
C	**D**
triangular prism	cylinder

Copyright © Maths Pathway 2025.

Question 8

This is the net of a:

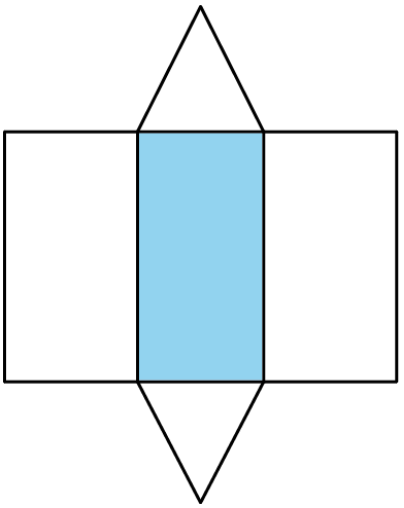


Circle the correct option

A	B
square based pyramid	triangular based pyramid
C	**D**
triangular prism	cylinder

Question 9

This is the net of a:



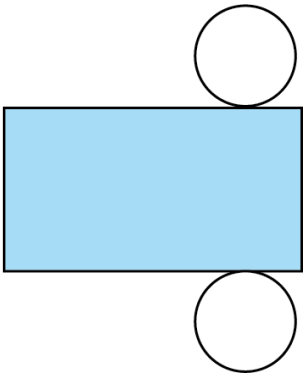
Circle the correct option

A	B
square based pyramid	triangular based pyramid
C	**D**
triangular prism	cylinder

Copyright © Maths Pathway 2025.

Question 10

This is the net of a:



Circle the correct option

A

square based pyramid

B

triangular based pyramid

C

triangular prism

D

cylinder

Copyright © Maths Pathway 2025.

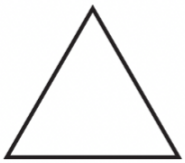
Ex 9.7

No calculators are permitted in this exercise.

Worked Example for Simple Questions

Which one is **not** a polygon?

A



B



C



D



* Polygons have straight edges, this has a curved edge, so is not a polygon.

Copyright © Maths Pathway 2025.

Polygons

Question 1

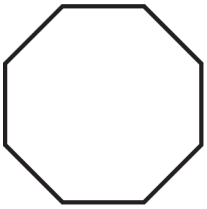
Which one is **not** a polygon?

Circle the correct option

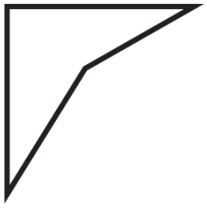
A



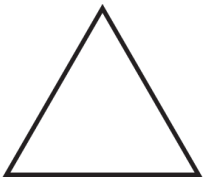
B



C



D



Question 2

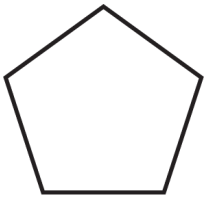
Which one is **not** a polygon?

Circle the correct option

A



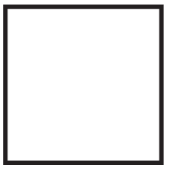
B



C



D



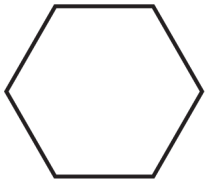
Copyright © Maths Pathway 2025.

Question 3

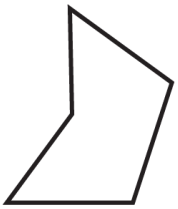
Which one is **not** a polygon?

Circle the correct option

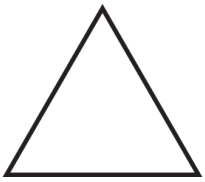
A



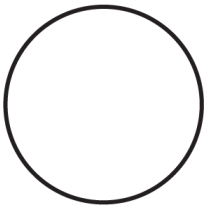
B



C



D

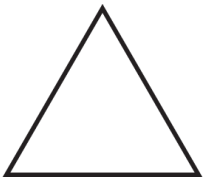


Question 4

Which one is **not** a polygon?

Circle the correct option

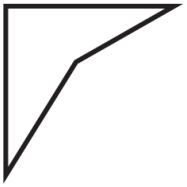
A



B



C



D



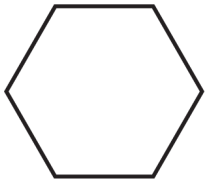
Copyright © Maths Pathway 2025.

Question 5

Which one is **not** a polygon?

Circle the correct option

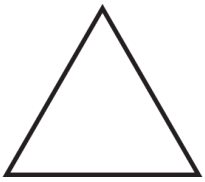
A



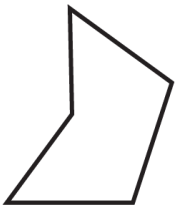
B



C



D



Copyright © Maths Pathway 2025.

Worked Example for Standard Questions

This shape is:



A	B	C
a polygon - square	a polygon - triangle	not a polygon - circle

D

a polygon - hexagon

A polygon is a closed shape made up of all straight lines.

Squares, triangles and hexagons are all polygons.

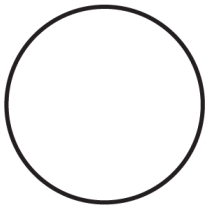
Circles are not polygons because not all the sides are straight lines.

A hexagon has six sides. So this shape is a polygon and a hexagon.

Copyright © Maths Pathway 2025.

Question 6

This shape is:



Circle the correct option

A

a polygon - square

B

a polygon - triangle

C

not a polygon - circle

D

a polygon - pentagon

Question 7

This shape is:



Circle the correct option

A

a polygon - square

B

a polygon - triangle

C

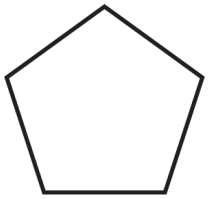
not a polygon - semi-circle

D

a polygon - pentagon

Question 8

This shape is:



Circle the correct option

A

a polygon - square

B

a polygon - triangle

C

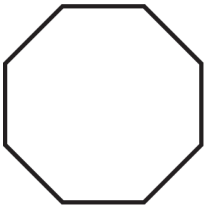
not a polygon - circle

D

a polygon - pentagon

Question 9

This shape is:



Circle the correct option

A

a polygon - square

B

a polygon - triangle

C

not a polygon - circle

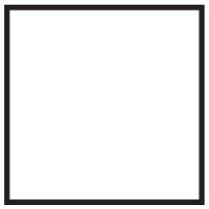
D

a polygon - octagon

Copyright © Maths Pathway 2025.

Question 10

This shape is:



Circle the correct option

A

a polygon - square

B

a polygon - triangle

C

not a polygon - circle

D

a polygon - pentagon

Copyright © Maths Pathway 2025.

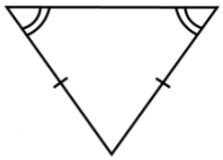
Ex 9.9

No calculators are permitted in this exercise.

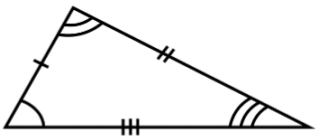
Worked Example for Simple Questions

Which shape is an **isosceles** triangle?

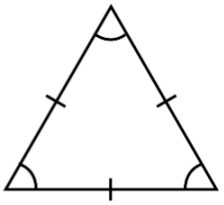
A



B



C



*An isosceles triangle has 2 angles the same and 2 sides the same

This is a scalene triangle with 3 different sides and angles.

This is an equilateral triangle with all the same sides and angles

Copyright © Maths Pathway 2025.

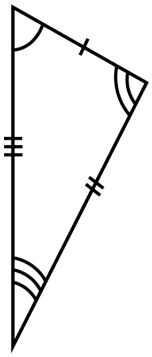
Triangle Classification

Question 1

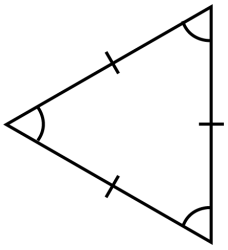
Which shape is a **scalene** triangle?

Circle the correct option

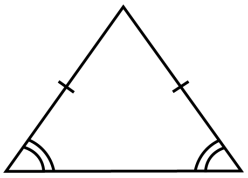
A



B



C

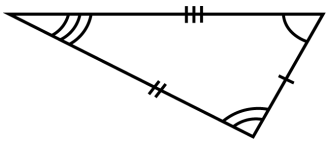


Question 2

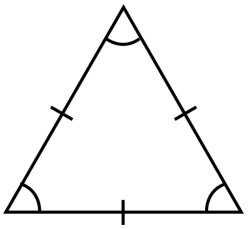
Which shape is an **equilateral** triangle?

Circle the correct option

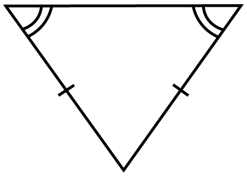
A



B



C



Copyright © Maths Pathway 2025.

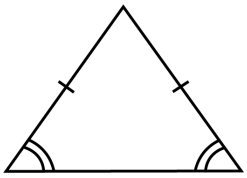
Triangle Classification

Question 3

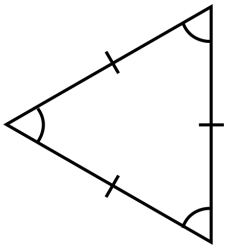
Which shape is an **isosceles** triangle?

Circle the correct option

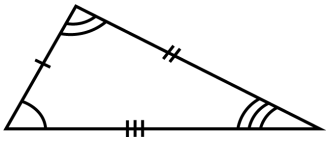
A



B



C

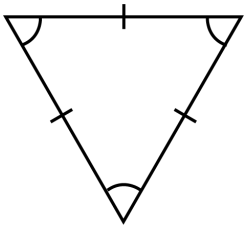


Question 4

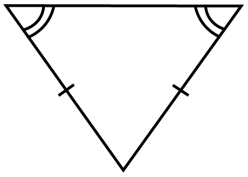
Which shape is an **isosceles** triangle?

Circle the correct option

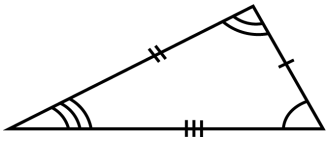
A



B



C



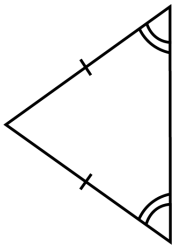
Copyright © Maths Pathway 2025.

Question 5

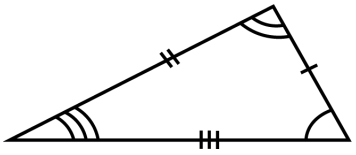
Which shape is a **scalene** triangle?

Circle the correct option

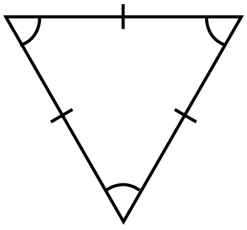
A



B



C



Copyright © Maths Pathway 2025.

Worked Example for Standard Questions

This triangle is:



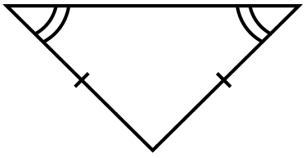
A	B	C
isosceles	scalene	equilateral

- Scalene triangles: all side lengths are different, all angles are different
- Isosceles triangles: two side lengths are the same, the two base angles are the same
- Equilateral triangles: all sides are the same length, all angles are the same (60 degrees)

Copyright © Maths Pathway 2025.

Question 6

This triangle is:



Circle the correct option

A

isosceles

B

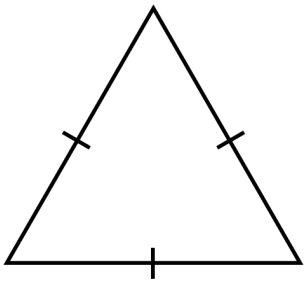
scalene

C

equilateral

Question 7

This triangle is:



Circle the correct option

A

isosceles

B

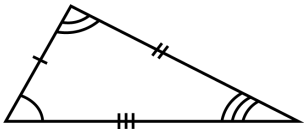
scalene

C

equilateral

Question 8

This triangle is:



Circle the correct option

A

isosceles

B

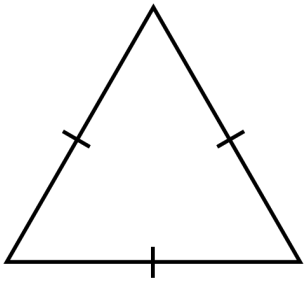
scalene

C

equilateral

Question 9

This triangle is:



Circle the correct option

A

isosceles

B

scalene

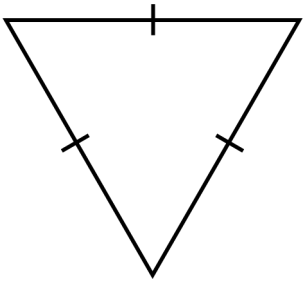
C

equilateral

Copyright © Maths Pathway 2025.

Question 10

This triangle is:



Circle the correct option

A

isosceles

B

scalene

C

equilateral

Copyright © Maths Pathway 2025.

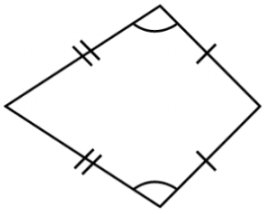
No calculators are permitted in this exercise.

Ex 9.11

Worked Example for Simple Questions

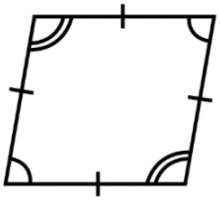
Choose the **trapezium**.

A



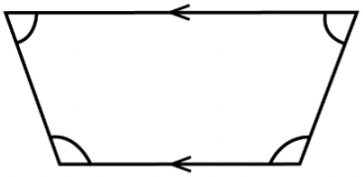
This is a kite

B



This is a rhombus

C



*A trapezium has one pair of parallel lines

Copyright © Maths Pathway 2025.

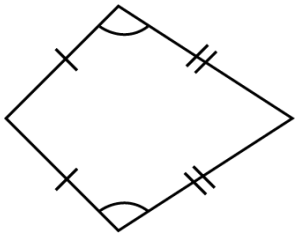
Quadrilateral Classification

Question 1

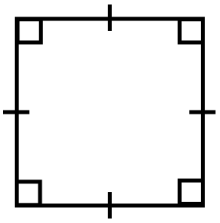
Choose the **trapezium**.

Circle the correct option

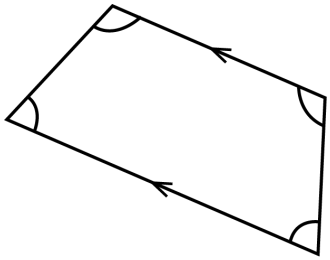
A



B



C

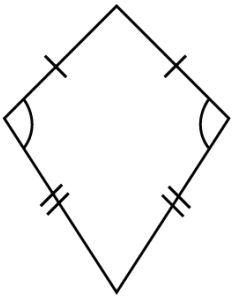


Question 2

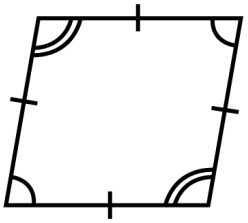
Choose the **rhombus**.

Circle the correct option

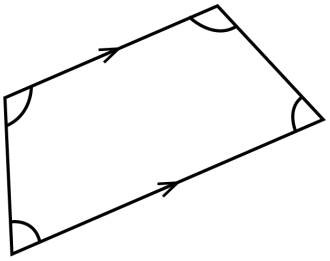
A



B



C



Copyright © Maths Pathway 2025.

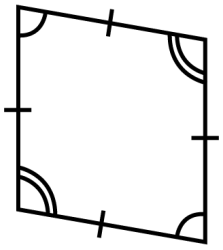
Quadrilateral Classification

Question 3

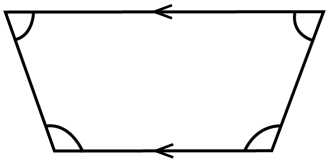
Choose the **rhombus**.

Circle the correct option

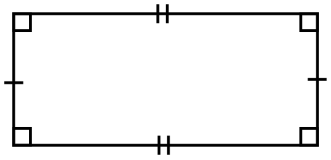
A



B



C

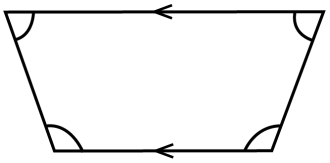


Question 4

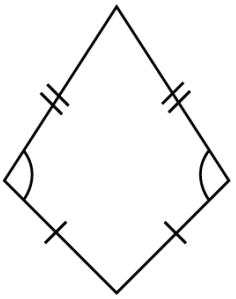
Choose the **trapezium**.

Circle the correct option

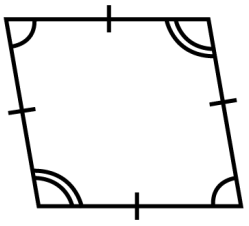
A



B



C



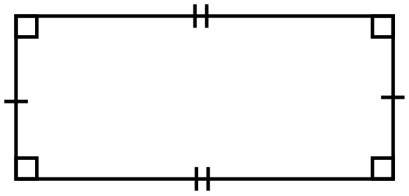
Copyright © Maths Pathway 2025.

Question 5

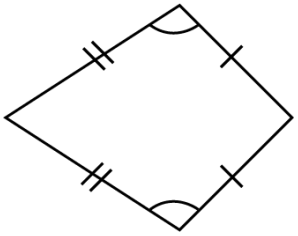
Choose the **kite**.

Circle the correct option

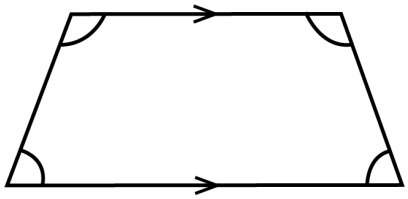
A



B



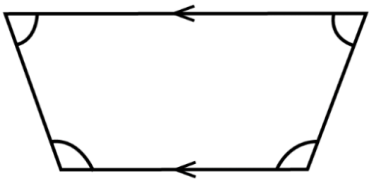
C



Copyright © Maths Pathway 2025.

Worked Example for Standard Questions

The following shape is a:



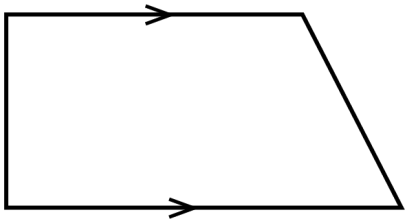
A	B	C	D	E
trapezium	rectangle	parallelogram	rhombus	kite

A trapezium has two opposite parallel sides.
A rectangle has two sets of parallel sides and all the angles are 90 degrees.
A parallelogram has two sets of parallel sides and opposite angles are equal.
A rhombus has all sides equal length and opposite angles are equal.
A kite has adjacent sides of equal length.

Copyright © Maths Pathway 2025.

Question 6

The following shape is a:



Circle the correct option

A

trapezium

B

rectangle

C

parallelogram

D

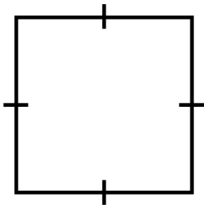
rhombus

E

kite

Question 7

The following shape is a:



Circle the correct option

A

trapezium

B

circle

C

parallelogram

D

square

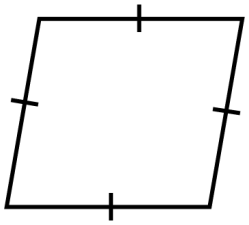
E

kite

Copyright © Maths Pathway 2025.

Question 8

The following shape is a:



Circle the correct option

A

trapezium

B

rectangle

C

parallelogram

D

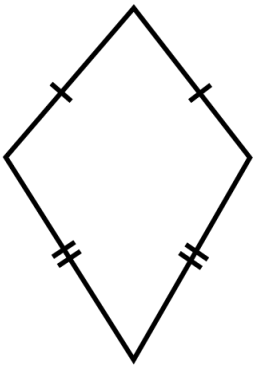
rhombus

E

kite

Question 9

The following shape is a:



Circle the correct option

A

trapezium

B

rectangle

C

parallelogram

D

rhombus

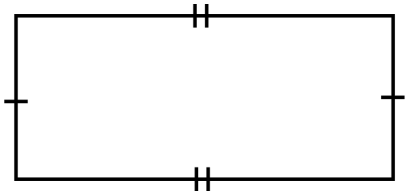
E

kite

Copyright © Maths Pathway 2025.

Question 10

The following shape is a:



Circle the correct option

A

trapezium

B

rectangle

C

parallelogram

D

rhombus

E

kite

Copyright © Maths Pathway 2025.