

GCSE Maths – Geometry

Vocabulary and Notation

Worksheet

NOTES



SOLUTIONS



This worksheet will show you how to work out different types of vocabulary and notation questions. Each section contains a worked example, a question with hints and then questions for you to work through on your own.

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Section A



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▶ Image: Contraction PMTEducation





Worked Example



▶ Image: Contraction PMTEducation





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▶ Image: Second Second



Now it's your turn!

If you get stuck, look back at the worked and guided examples.

- 1. Draw the stated number of lines of symmetry on the shapes below:
 - a) One line.

e) Four lines.



b) One line.



f) Four lines.



c) Two lines.

d) Two lines.



g) Five lines.



h) Six lines.



▶ Image: PMTEducation





Section B

Worked Example

Define the angles below as acute, obtuse, right-angled or reflex.



Step 1: The first angle is acute.

It is acute because the angle is less than a right-angle.

Step 2: The second angle is reflex.

It is reflex because it is more than a straight line, but less than a full turn.

Step 3: The third angle is a right-angle.

We can tell that it is a right-angle because the angle is marked with a square symbol.

Step 4: The fourth angle is an obtuse angle.

It is obtuse because it is more than a right-angle but less than a straight line.

Guided Example

Draw an acute angle and an obtuse angle.

Step 1: An acute angle is less than a right-angle. Draw two lines connected at a point and mark the angle.

Step 2: An obtuse angle is less than a half-turn but more than a right angle. Draw two lines connected at a point and mark the angle.

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Now it's your turn!

If you get stuck, look back at the worked and guided examples.

- 2. Draw the angles below:
 - a) An acute angle.
 - b) A reflex angle.
 - c) A half-turn.
 - d) A full turn.
- 3. The diagram below shows a triangle with three angles marked. Daniel says



"The size of angle x is 76°."

▶ Image: Second Second

Is Daniel correct? Give a reason for your answer.

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Section C



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Now it's your turn!

If you get stuck, look back at the worked and guided examples.

- 4. In the triangle EFG:
- a) Mark the lines of equal length.
- b) Draw a line through point E that is perpendicular to the line FG.
- c) Is this line a line of symmetry? Explain your answer.



5. In the trapezium HIJK:



- a) Mark the parallel lines.
- b) Draw a line through the midpoint of HI that is perpendicular to KJ.
- c) Is this a line of symmetry? Explain your answer.
- d) Draw a line through the midpoints of HI and KJ. Is this line parallel to HK?

▶ Image: Contraction PMTEducation

e) Are any of the lines in the trapezium equal?

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- 6. Draw and annotate:
- a) A pair of parallel lines.
- b) A pair of perpendicular lines.
- c) A triangle with a right angle.
- d) A triangle with two equal sides.

e) A parallelogram.

f) A square.

g) A regular pentagon.

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▶ Image: Second Second

