

Worked Examples

Properties of Shape

Year 4

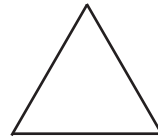
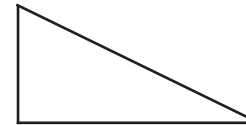
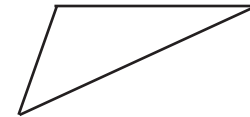
Instructions

A pupil has been given a set of questions to answer. They tried their best but think they have got some answers wrong.

Go through the work and check the answers. Help the pupil to understand their errors by explaining where they have gone wrong or how to find the correct answer (there are prompts below the questions to help you).

Note that you will not always be asked to provide the correct answer.

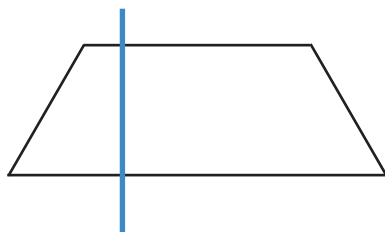
1 Tick the scalene triangle.

☐☒☐☐

This answer is: ☐ Correct ☐ Incorrect

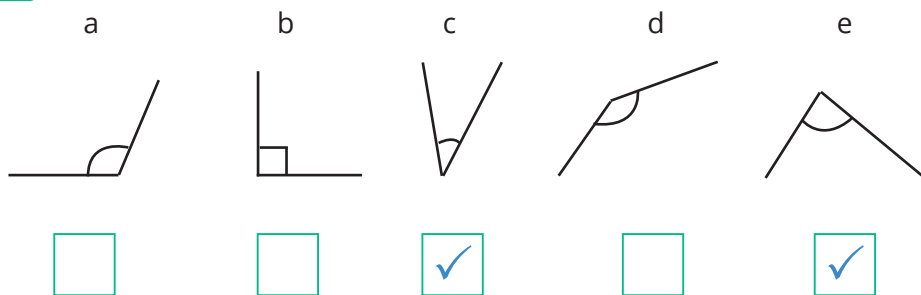
Define the features of a scalene triangle.

2 Draw a line of symmetry on the trapezium.



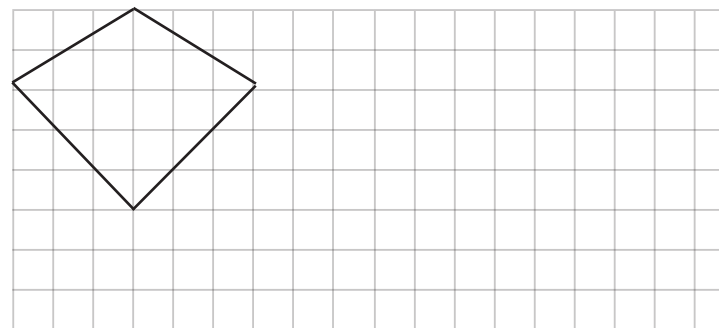
This answer is: ☐ Correct ☐ Incorrect
If incorrect, where should the line of symmetry be? Explain.

3 Tick the obtuse angles.



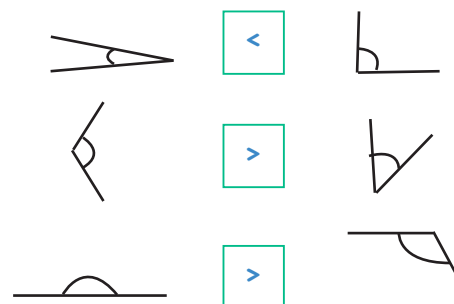
The answers are: ☐ Correct ☐ Incorrect
Describe an obtuse angle.

4 Draw a rhombus.



This answer is: ☐ Correct ☐ Incorrect
If incorrect, draw a rhombus.

5 Compare the angles using $<$, $>$ or $=$.



This answer is: ☐ Correct ☐ Incorrect
Explain how to identify the larger angle in a pair of angles.

Answers

Q no.	Question	Correct/ Incorrect	Error/ Additional Guidance
1	Tick the scalene triangle. Second triangle	Incorrect	The pupil has ticked a right-angle triangle. For most Year 4 pupils, this will be the first time they have been introduced to the names of triangles. A scalene triangle is a triangle with three different length sides and three different angles. An isosceles triangle has two equal sides and two equal angles. An equilateral triangle has all equal sides and angles. Finally, a right-angle triangle has right angle. Correct answer – third triangle
2	Draw a line of symmetry on the trapezium. Line drawn vertically, to the left of the trapezium.	Incorrect	Most trapeziums have no lines of symmetry. However, the two sloping sides of this trapezium are the same length meaning there is one line of symmetry. The pupil has tried to identify the line of symmetry and they have placed the line to the left of the centre. If the trapezium were folded on this line, it would not be symmetrical. Correct answer - The line of symmetry should be drawn vertically through the middle of the trapezium.
3	Tick the obtuse angles. c and e	Incorrect	The pupil has ticked the acute angles, not the obtuse angles. An obtuse angle is an angle greater than 90° (a right angle) but smaller than 180° (a straight line). An acute angle is smaller than 90° . Correct answers – a and d
4	Draw a rhombus. (see question)	Incorrect	The pupil has drawn a kite. They understand that a rhombus is a quadrilateral (a four-sided polygon) but they do not know what the properties of a rhombus are. A rhombus is a parallelogram in which all four side are equal. They have pairs of opposite angles that are equal. Correct answers should match the description above.
5	Compare the angles using $<$, $>$ or $=$. $<$, $>$, $>$	Correct	The pupil has correctly identified the larger angle in each pair. This shows that they understand how angles are marked and how to compare them.