

Grade 4 · Lines, Angles, Shapes and Symmetry

· Quiz

Common Core 4.G.A.1, 4.G.A.2, 4.G.A.3 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

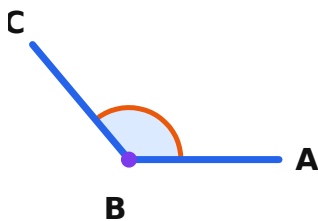
Try this 10-question quiz on lines, rays, angle types, parallel and perpendicular lines, triangles and symmetry. Pick one answer for each question, then read the explanation to see why it is right and which mistake each wrong choice shows.

Grade 4 Common Core: 4.G.A.1 · 4.G.A.2 · 4.G.A.3

Questions

Question 1

What type of angle is angle ABC?



Angle ABC.

- A. Acute
- B. Right
- C. Obtuse
- D. Straight

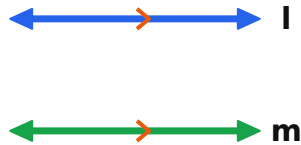
Question 2

How many endpoints does a ray have?

- A. 0
- B. 2
- C. 3
- D. 1

Question 3

How are lines l and m related?

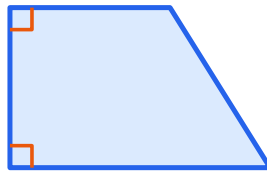


Lines l and m.

- A. Perpendicular
- B. Intersecting at a slant
- C. Parallel
- D. The same line

Question 4

How many right angles does this figure have?

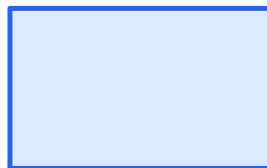


A quadrilateral.

- A. 0
- B. 1
- C. 2
- D. 4

Question 5

How many lines of symmetry does this rectangle have?



A rectangle that is not a square.

- A. 2
- B. 1
- C. 4

D. 0

Question 6

Which figure has exactly one pair of parallel sides?

- A. Trapezoid
- B. Rectangle
- C. Parallelogram
- D. Square

Question 7

What kind of angle do the hands of a clock form at 4:00?

- A. Right
- B. Obtuse
- C. Acute
- D. Straight

Question 8

How many lines of symmetry does the block capital letter H have?

- A. 0
- B. 2
- C. 1
- D. 4

Question 9

Which description fits perpendicular lines?

- A. They never meet
- B. They share one endpoint only
- C. They cross at a slant
- D. They cross and form square corners

Question 10

A square sandwich is cut from one corner to the opposite corner. What shape is each piece?

- A. Rectangle
- B. Right triangle
- C. Obtuse triangle
- D. Trapezoid

Answer key

1. **C** – It opens wider than a square corner but is not a straight line, so it is obtuse. Acute angles are narrower than a square corner.
2. **D** – A ray starts at one endpoint and goes on forever in one direction. A line has 0 endpoints and a segment has 2.
3. **C** – The lines stay the same distance apart and never meet, so they are parallel. Perpendicular lines cross at a square corner.
4. **C** – Only the two corners on the left are square corners. The slanted side keeps the other two angles from being right angles.
5. **A** – It folds lengthwise and crosswise. Folding corner to corner does not match, so the answer is not 4.
6. **A** – A trapezoid has one pair. Rectangles, parallelograms and squares each have two pairs.
7. **B** – At 4:00 the hands are 4 hours apart, which is wider than the 3-hour square corner, so the angle is obtuse.
8. **B** – H folds up and down and left and right. It does not fold corner to corner.
9. **D** – Perpendicular lines cross and make right angles. Lines that never meet are parallel.
10. **B** – Each piece keeps one square corner of the square and has three sides, so it is a right triangle.

Remember:

- A line segment has 2 endpoints, a ray has 1 and a line has 0.
- A right angle is a square corner; acute is smaller and obtuse is larger.
- Parallel lines never meet; perpendicular lines cross at right angles.
- A right triangle has exactly one right angle.
- A line of symmetry splits a figure into two matching halves.