

Grade 4 - Lines, Rays and Classifying Shapes - Test

Common Core 4.G.A.1, 4.G.A.2 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This test has 8 questions worth 20 points. Allow 45 minutes. Use a ruler and the corner of a card or a protractor for the drawing questions. Show your reasoning when you classify a shape.

About this test

- Grade: Grade 4
- Chapter: Lines, Rays and Classifying Shapes
- Standards: 4.G.A.1, 4.G.A.2
- Time: 45 minutes
- Total: 20 points

Question 1 - Name the figure [2 pts]

Use the figures to answer.



Figure 1



Figure 2

Two figures.

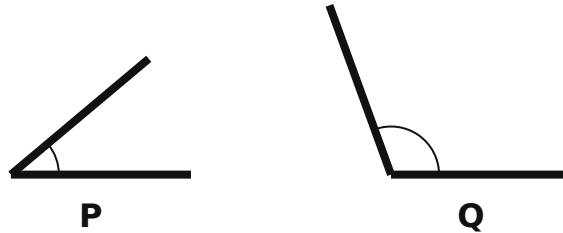
- Name Figure 1. (1 point)
- Name Figure 2. (1 point)

Question 2 - Draw lines [2 pts]

- Draw two parallel lines. (1 point)
- Draw two perpendicular lines and mark the right angle. (1 point)

Question 3 - Name the angles [2 pts]

Look at angles P and Q.



Two angles.

- a. Is angle P acute, right, or obtuse? (1 point)
- b. Is angle Q acute, right, or obtuse? (1 point)

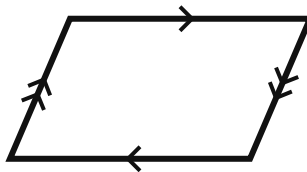
Question 4 - Classify triangles [2 pts]

Classify each triangle as acute, right, or obtuse from its angle measures.

- a. $30^\circ, 60^\circ, 90^\circ$ (1 point)
- b. $20^\circ, 30^\circ, 130^\circ$ (1 point)

Question 5 - Study a quadrilateral [3 pts]

Look at the shape.



A quadrilateral.

- a. How many pairs of parallel sides does it have? (1 point)
- b. How many right angles does it have? (1 point)
- c. What is the name of the shape? (1 point)

Question 6 - Sort the shapes [3 pts]

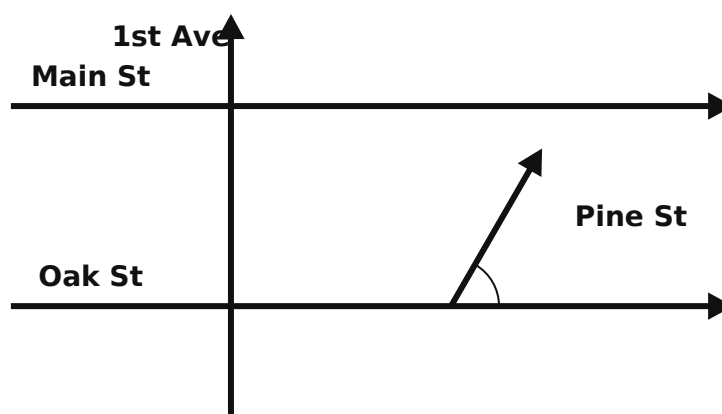
Complete the table.

Shape	Pairs of parallel sides	Right angles
Rectangle	(a)	(b)
Trapezoid with slanted sides	(c)	(d)
Right triangle	(e)	(f)

(3 points: 1 point for each row)

Question 7 - Read the map [3 pts]

Pine St meets Oak St and makes a 60° angle, as shown.



City map.

- Name two streets that are parallel. (1 point)
- Name two streets that are perpendicular. (1 point)
- Is the 60° angle formed by Pine St and Oak St acute, right, or obtuse? (1 point)

Question 8 - Always, sometimes, never [3 pts]

Write *always*, *sometimes*, or *never*.

- A rectangle has four right angles. (1 point)
- A triangle has two right angles. (1 point)
- A quadrilateral has a pair of parallel sides. (1 point)