

Grade 3 - Quadrilaterals and Partitioning Shapes - Test Answer Key

Common Core 3.G.A.1, 3.G.A.2 · maths-pdf.fr/en/

This **quadrilaterals test answers** for 3rd Grade covers quadrilaterals and partitioning shapes (Common Core 3.G.A.1, 3.G.A.2), with a free PDF to print.

Use this answer key and scoring guide to grade the quadrilaterals test. Each solution shows the reasoning, and every scoring note says how the points are awarded. Give partial credit when the idea is right but a small detail is missing.

Grade 3 · Common Core State Standards: **3.G.A.1, 3.G.A.2**

Quadrilaterals test answers: worked solutions

Question 1 - Which are quadrilaterals [2 pts]

A has 3 sides and D has 5 sides. B, C, E, and F have 4 sides each.

B, C, E, F

Scoring: 2 points for all four letters. 1 point for three correct letters with no wrong letter, or four correct letters plus one wrong letter.

Question 2 - True or false [2 pts]

- a. A square has 4 equal sides. **True.**
- b. A rectangle that is 5 inches long and 2 inches wide has sides of different lengths. **False.**

Scoring: 1 point for each correct answer.

Question 3 - Two mystery shapes [2 pts]

- a. **Rhombus**
- b. **Rectangle**

Scoring: 1 point for each correct name.

Question 4 - Sort the shapes [3 pts]

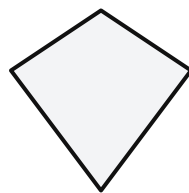
Shape	Rectangle?	Rhombus?
Square	yes	yes
A 7 by 3 rectangle	yes	no
Rhombus with no right angles	no	yes

A trapezoid does not have 4 right angles and does not have 4 equal sides, so it is neither.

Scoring: 2 points for the table (1 point if 4 or 5 of the 6 cells are right). 1 point for a correct explanation.

Question 5 - Draw a new quadrilateral [2 pts]

Sample drawing: a kite with sides of 3, 3, 5, and 5 units. It has no right angles and not all sides are equal.



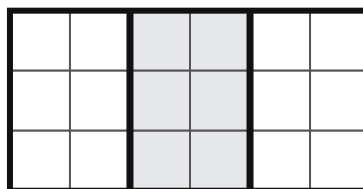
kite

A kite with two short sides and two long sides, no right angles

Scoring: 1 point for a closed shape with exactly 4 straight sides. 1 point for showing it is not a rhombus, rectangle, or square.

Question 6 - Equal parts on a grid [2 pts]

$18 \div 3 = 6$, so each part has 6 squares. One way is to cut after 2 columns and after 4 columns. Each part is $\frac{1}{3}$ of the rectangle.



The same grid rectangle cut by two vertical lines into 3 parts with 6 squares each

Scoring: 1 point for a cut into three parts of 6 squares each. 1 point for one third.

Question 7 - The cut square [2 pts]

The two parts do not have equal area. The triangle covers only a small part of the square, so it is less than one half.

No, Aisha is not right.

Scoring: 1 point for "no." 1 point for saying the parts are not equal in area.

Question 8 - Corn bread tray [3 pts]

- a. $\frac{1}{8}$
- b. Bigger.
- c. The same tray is shared by fewer pieces, so each piece covers more area. One fourth is greater than one eighth.

Scoring: 1 point for each part.

Question 9 - Two cuts [2 pts]

Yes. Fourths only need equal area, and the parts do not need the same shape. Both children made 4 parts with equal area, so each part is $\frac{1}{4}$.

Scoring: 1 point for "yes." 1 point for saying equal area is what matters.

Total score

Total

20 points

Key facts behind this quadrilaterals test answers
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Key facts

- A quadrilateral has exactly 4 straight sides and 4 corners.

- A rhombus has 4 equal sides; a rectangle has 4 right angles.
- A square is a rhombus and a rectangle at the same time.
- Some quadrilaterals are not rhombuses, rectangles, or squares.
- Equal parts have equal area, and each of n equal parts is $1/n$ of the whole.

How to use this quadrilaterals test answers

Score your test with the point values shown for each question. Then read the worked solution of every question where you lost points and note the method to review.

Download the quadrilaterals test answers as a PDF with the button below and keep it with your notes.