

Grade 2 · Shapes and Equal Shares · Worksheet Answer Key

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

This answer key shows a full worked solution for every problem on the Grade 2 shapes and equal shares worksheet. Check the number of sides, count the rows and columns, and make sure equal shares are the same size. Final answers are in bold.

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

Problem 1: Count the sides

Count the sides: 1, 2, 3. Count the corners: 1, 2, 3.

Shape A has **3 sides, 3 vertices, and it is a triangle.**

Problem 2: Name the quadrilateral

Any shape with 4 sides is a **quadrilateral**.

Shape B has two slanted sides and a short top, so it is a **trapezoid**. It is a quadrilateral.

Problem 3: Five sides

A shape with 5 sides is a **pentagon**.

Problem 4: Count the vertices

Count the dots: 1, 2, 3, 4, 5, 6.

Shape C has **6 vertices**. It has 6 sides, so it is a **hexagon**.

Problem 5: Most and fewest sides

A has 5 sides, B has 3 sides, and C has 6 sides.

The most sides: **C (hexagon, 6 sides)**. The fewest sides: **B (triangle, 3 sides)**.

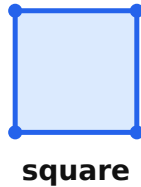
Problem 6: Find the quadrilaterals

Count sides: A has 4, B has 3, C has 4, D has 5.

The shapes with 4 sides are **A and C**.

Problem 7: Draw a square

A shape with 4 equal sides and 4 square corners is a **square**.



A square: 4 equal sides, 4 square corners.

Problem 8: Faces of a cube

Count the faces you can see: front, top, and right side. That is 3. The other 3 faces are hidden: back, bottom, and left.

$3+3=6$. A cube has **6 faces**.

Problem 9: Shape of a face

Each face of a cube is a **square**. A square has **4 sides**.

Problem 10: Rows and columns

There are 3 rows and 4 columns.

$$4+4+4=12$$

There are **12 squares**.

Problem 11: Count the squares

There are 2 rows with 5 squares in each row.

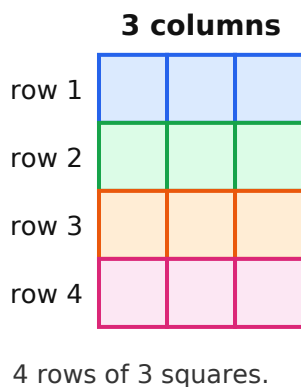
$$5+5=10$$

The total is **10 squares**.

Problem 12: Repeated addition

Add 3 once for each of the 4 rows.

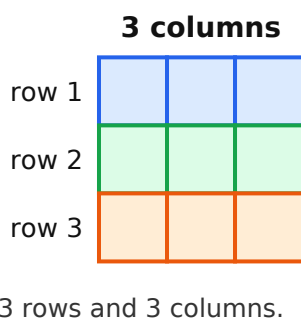
$$3+3+3+3=12$$



The total is **12 squares**.

Problem 13: Draw rows and columns

Draw 3 rows with 3 squares in each row.



$$3+3+3=9$$

There are **9 squares**.

Problem 14: Floor tiles

Add 4 once for each of the 5 rows.

$$4+4+4+4+4=20$$

He uses **20 tiles**.

Problem 15: One half

The rectangle has 2 equal shares, and 1 share is shaded.

One half is shaded, or $\frac{1}{2}$.

Problem 16: One third

The circle has 3 equal shares, and 1 share is shaded.

One third is shaded, or $\frac{1}{3}$.

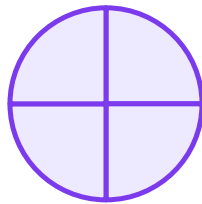
Problem 17: Three fourths

The rectangle has 4 equal shares. Shaded shares: 1, 2, 3.

Three fourths are shaded.

Problem 18: Cut a circle

Draw one line across the middle, then draw a second line across the middle that crosses the first one at a square corner.



A circle cut into fourths.

Each share is called **a fourth**.

Problem 19: Same size, new shape

In A, the square is cut into 2 equal rectangles. In B, it is cut into 2 equal triangles.

Yes to both. Each share is a half because the 2 shares are the same size, even though the shapes are different.

Problem 20: Which shows halves?

In A, the two parts are the same size. In B, one part is small and the other part is large.

A is cut into halves because halves must be equal shares.

Problem 21: Sandwich halves

Each share is a half. She ate **one half** ($\frac{1}{2}$).

Two halves make the whole, so **2 halves** make the whole sandwich.

Problem 22: Pizza fourths

Each slice is a fourth. He ate **one fourth** ($\frac{1}{4}$).

$4 - 1 = 3$. There are **3 fourths** left.

Problem 23: Garden plants

Add 6 once for each of the 4 rows.

$$6 + 6 + 6 + 6 = 24$$

She plants **24 seeds**.

Problem 24: Cracker thirds

There are 3 equal shares, one for each friend, so **3 friends** get a share.

Three thirds make **the whole cracker**.