

Shapes and Equal Shares: math practice, Grade 1 – download the PDF

20 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Name the flat shape



Write the name of each shape.

- a. It has 3 sides and 3 corners.
- b. It is round and has no corners.
- c. It has 4 equal sides and 4 square corners.

2 Count sides and corners



Copy and fill in the table.

Shape	Sides	Corners
triangle	?	?
rectangle	?	?
circle	?	?

3

Solids in real life

Match each object with a solid shape: cube, cone, cylinder, sphere.

- a. a soccer ball
- b. a can of corn
- c. a number die
- d. a party hat

4

True or false: circles

Is this true or false? "A circle has 1 corner." Explain your answer.

5

Which sandwich shows halves?

Two sandwiches are each cut into 2 pieces.



Sandwich A



Sandwich B

Which sandwich is cut into halves? Why?

6

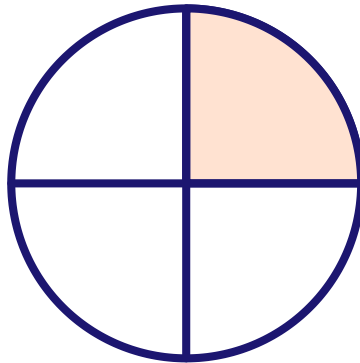
Fill in the words

Fill in each blank with **half**, **fourth**, or **whole**.

- a. 2 equal shares are called ____.
- b. 4 equal shares are called ____ or quarters.
- c. 2 halves make one ____.

7**Pizza shares**

Look at the pizza.



Pizza

- a. Into how many equal shares is the pizza cut?
- b. How many shares are colored?
- c. What do we call the colored share?

8**Riddle time**

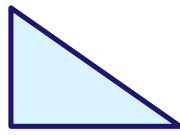
Solve each riddle.

- a. I have 4 sides. All my sides are the same length. All my corners are square.
- b. I have 4 sides. Two are long and two are short. All my corners are square.
- c. I am a solid. I have 6 flat faces and each one is a square.

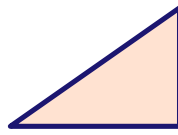
9

Two triangles

Mia has two identical triangles.



Triangle 1



Triangle 2

She slides them together along their longest sides, with no gaps. What new shape can she make? How many sides does it have?

10

Two squares

Leo puts 2 squares of the same size side by side. He has no gaps and no overlaps. What shape does he make? Count its sides.

11

Which solids roll?

Look at a cube, a cylinder, and a sphere. Which solids can roll when you push them? Which solid cannot roll? Explain.

12

Sharing crackers

There are 12 crackers.

- Two friends share them equally. How many crackers does each friend get?
- Four friends share them equally. How many crackers does each friend get?

13 Are these fourths?



Noah cut a rectangle into 4 pieces.



He says the 4 pieces are fourths. Is he right? Explain.

14 Half or fourth?



Ava has a pie. She can take one half of the pie or one fourth of the same pie. Which share is bigger? Explain.

15 Square in 4 shares



Draw a square. Cut it into 4 equal shares in two different ways. Describe each way with words.

16 Build a tower



Zoe builds a tower with 2 cubes, 3 cylinders, 1 cone, and 1 sphere.

- How many solids are in the tower?
- How many of them are cubes or cylinders?

17 Find the whole



A ribbon is cut into 2 equal pieces. One piece is 5 cubes long.

a. How long is the whole ribbon?

Another ribbon is cut into 4 equal pieces. One piece is 3 cubes long.

b. How long is that whole ribbon?

18 Pie problem



A pie is cut into 4 equal shares. Mia eats 1 share and Leo eats 2 shares.

a. How many shares did they eat in all?

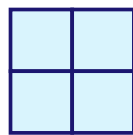
b. How many shares are left?

c. What do we call each share?

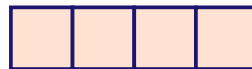
19 Same four squares



Look at the two shapes. Both are made of 4 small squares.



Shape A



Shape B

a. Which shape is a big square? How do you know?

b. Which shape is a rectangle that is not a square?

20 Find the mistake



Ben says, "A cone and a triangle are the same shape, because both have a point." Is Ben right? Explain what is different.



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