

Shapes, Arrays and Equal Parts: math practice, Grade 2 – download the PDF

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

1

Name the polygon

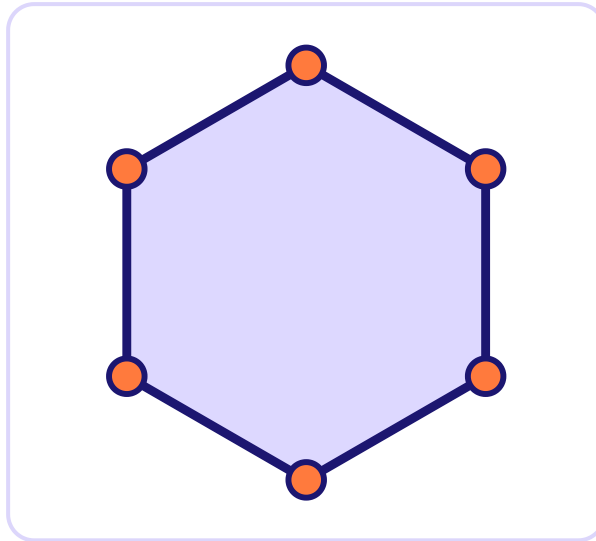


Write the name of each polygon.

- a. It has 3 sides.
- b. It has 5 sides.
- c. It has 4 sides.
- d. It has 6 sides.

2**Count sides and vertices**

Look at the shape.



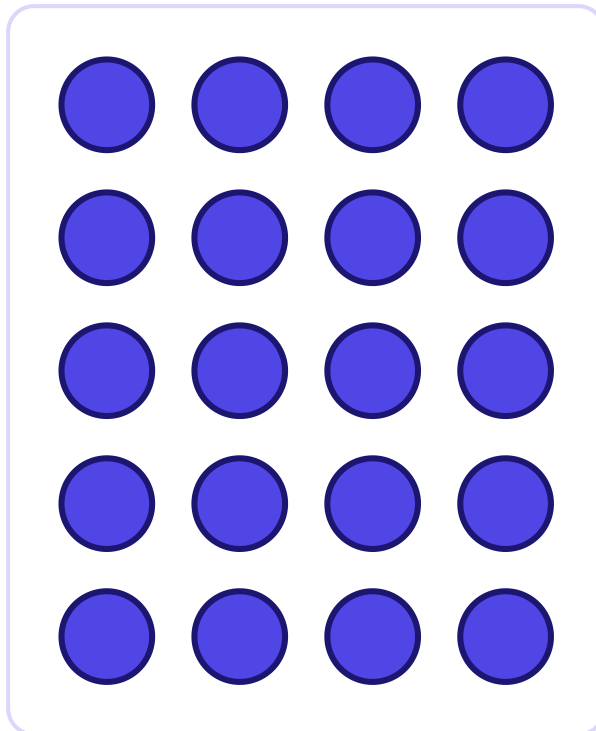
How many sides does it have? How many vertices? What is its name?

3**Facts about a cube**

Fill in the blanks about a cube: it has ___ faces, ___ edges and ___ vertices. The shape of each face is a ___.

4**Rows and columns**

Here are the stickers on a page.



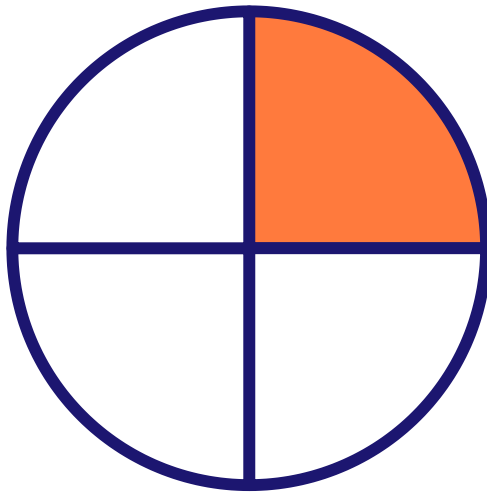
How many rows are there? How many columns? Write a repeated addition sentence by rows.

5**Cut a sandwich**

Mia cuts a sandwich into 2 equal parts. What do we call each part? How many of these parts make the whole sandwich?

6**Name the shaded part**

A circle is cut into equal parts.



How many equal parts are there? What fraction word names the shaded part?

7**True or false?**

Say true or false. Explain each answer.

- a. A square is a quadrilateral.
- b. A triangle has 4 vertices.
- c. A circle is a polygon.

8**Cookies on a tray**

A baker puts cookies on a tray in 3 rows of 5. Write a repeated addition sentence by rows and by columns. How many cookies are on the tray?

9

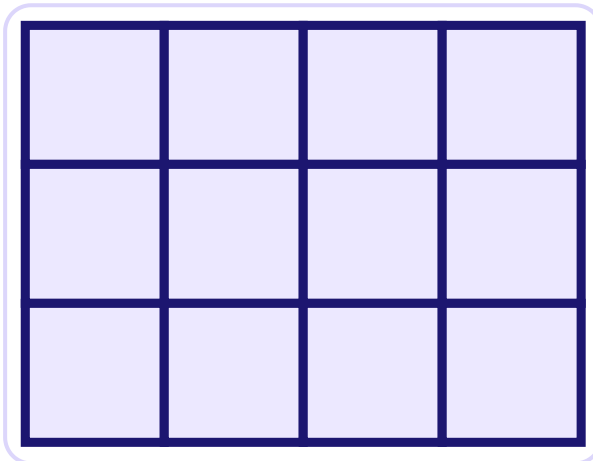
A growing garden

A garden has 3 rows with 4 plants in each row. Then Omar adds one more row of 4 plants. How many plants are there now?

10

Squares in a rectangle

A rectangle is partitioned into equal squares.



How many rows and columns are there? Write an addition sentence to find the number of squares.

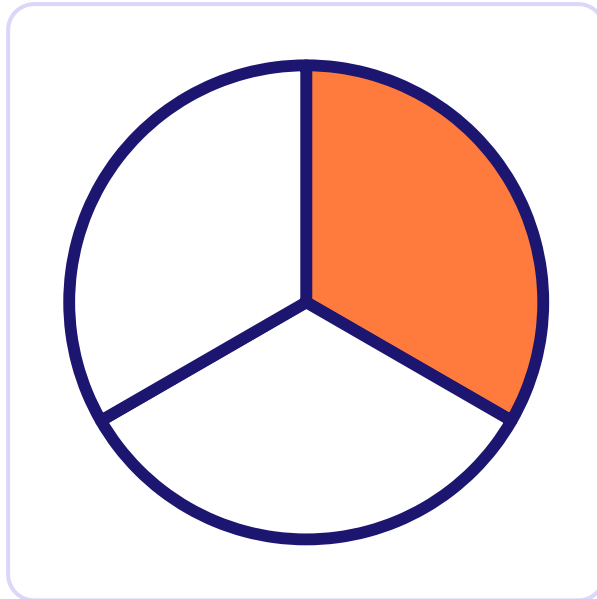
11

Two friends share cornbread

Two friends share a rectangular pan of cornbread. Nina cuts along the middle line. Her friend cuts from corner to corner. Both cuts make 2 equal pieces. Are the pieces the same shape? Is each friend getting a half?

12**Name the shaded fraction**

Look at the circle.



Into how many equal parts is it cut? Name one shaded part. How many parts like it make the whole circle?

13**Shape riddles**

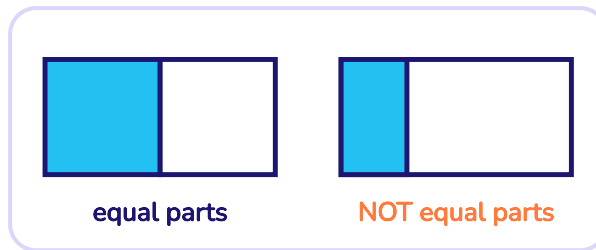
Name the shape.

- a. I have 4 sides and 4 square corners. My sides are all the same length.
- b. I have 6 sides.
- c. I have 3 vertices.

14 Equal or not?



Maya says both rectangles are cut into halves.



Is Maya right about each rectangle? Explain.

15 Two cubes



Leo has 2 toy cubes. How many square faces do they have in all? How many edges in all? How many vertices in all?

16 Riddle with numbers



Solve the two riddles.

- I have 2 more sides than a quadrilateral. What am I?
- I have 1 fewer side than a hexagon. What am I?
- How many sides do the two shapes have in all?

17 The baker and her trays



A baker makes 5 rows of 5 muffins. Then 7 muffins are sold. How many muffins are left? Can she put the muffins left into 3 equal rows? How many in each row?

18 Shading half and a fourth



A rectangle is partitioned into 4 rows of 5 equal squares.

- How many squares are there?
- How many squares do you shade to show one half?
- How many squares make one fourth?

19 Halves of different wholes

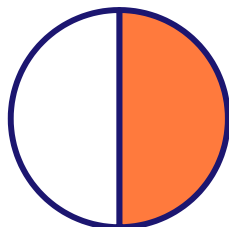


Ana has half of a small pizza. Ben has half of a big pizza. Ben says, "My half is the same as your half." Is he right? Explain.

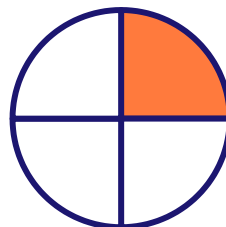
20 Which is smaller?



Two circles are the same size.



one half



one fourth

Which shaded part is smaller? Explain why, using the number of equal parts.

21 Build an array



A rug has 3 rows of 5 squares. Write the sentence by rows and by columns. Then add 2 more rows of 5. How many squares are there in the end?



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