

Shapes and Equal Shares: practice solutions, Grade 1

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Written solutions to the chapter problems. Check each step, then correct yourself.

1 Name the flat shape



- a. 3 sides and 3 corners: it is a **triangle**.
- b. Round with no corners: it is a **circle**.
- c. 4 equal sides and 4 square corners: it is a **square**.

2 Count sides and corners



We count the straight edges and the points.

Shape	Sides	Corners
triangle	3	3
rectangle	4	4
circle	0	0

A circle is round, so it has 0 sides and 0 corners.

3 Solids in real life



- a. A soccer ball is round all over: **sphere**.
- b. A can of corn has two circle faces: **cylinder**.
- c. A number die has 6 square faces: **cube**.
- d. A party hat has one circle face and a point: **cone**.

4 True or false: circles



It is **false**. A circle is round all the way around. It has no straight sides and no corners, so it has 0 corners.

5 Which sandwich shows halves?



Sandwich **A** is cut into halves. Its two pieces are exactly the same size. In sandwich **B** one piece is bigger than the other, so those pieces are not halves.

6 Fill in the words



- a. 2 equal shares are called **halves** (one share is a half).
- b. 4 equal shares are called **fourths**.
- c. 2 halves make one **whole**.

7 Pizza shares



- a. The pizza is cut into **4** equal shares.
- b. **1** share is colored.
- c. The colored share is **one fourth** (or one quarter) of the pizza.

8 Riddle time



- a. 4 equal sides and 4 square corners: a **square**.
- b. 4 sides, two long and two short: a **rectangle**.
- c. A solid with 6 square faces: a **cube**.

9 Two triangles



Put the two triangles together along the long side. They make a **rectangle** (or a square if the sides match). The new shape has **4 sides** and 4 square corners.

10 Two squares



Two squares side by side make a long shape with 4 sides and 4 square corners. It is a **rectangle**, and it has **4 sides**.

11 Which solids roll?



A sphere rolls because it is round all over. A cylinder rolls on its curved side. A **cube** cannot roll because it has only flat square faces.

12 Sharing crackers



- a. Make 2 equal groups: $6 + 6 = 12$. Each friend gets **6 crackers**.
- b. Make 4 equal groups: $3 + 3 + 3 + 3 = 12$. Each friend gets **3 crackers**.

With more friends, each share is smaller.

13 Are these fourths?



Noah is **not right**. The 4 pieces have different widths, so they are not equal shares. Fourths must be 4 equal shares.

14 Half or fourth?

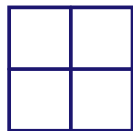


One **half** is bigger. A half comes from cutting the pie in 2 equal shares. A fourth comes from cutting in 4 equal shares, so each fourth is smaller.

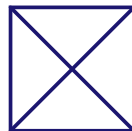
15 Square in 4 shares



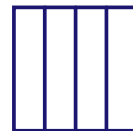
There are many ways. Here are three of them.



Way 1



Way 2



Way 3

Way 1: one line down the middle and one across the middle. Way 2: two lines from corner to corner. Way 3: three lines down to make 4 strips. In every way, the 4 shares have exactly the same size, so each share is **one fourth**.

16 Build a tower



- a. $2 + 3 + 1 + 1 = 7$. There are **7 solids**.
- b. $2 + 3 = 5$. **5 solids** are cubes or cylinders.

17 Find the whole



- a. Two halves make the whole: $5 + 5 = 10$. The ribbon is **10 cubes** long.
- b. Four fourths make the whole: $3 + 3 + 3 + 3 = 12$. The ribbon is **12 cubes** long.

18 Pie problem



- a. $1 + 2 = 3$. They ate **3 shares**.
- b. $4 - 3 = 1$. **1 share** is left.
- c. Each share is **one fourth** of the pie, so one fourth is left.

19 Same four squares



- a. Shape **A** is a big square. It has 4 equal sides and 4 square corners.
- b. Shape **B** is a rectangle that is not a square. It is long, with 2 long sides and 2 short sides.

The same 4 squares can make different shapes.

20 Find the mistake



Ben is **not right**. A triangle is a flat shape with 3 sides and 3 corners. A cone is a solid shape with a circle face and a curved surface. You can hold a cone, but a triangle drawn on paper is flat.



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