

# Grade 1 · 2D and 3D Shapes · Worksheet

## Answer Key

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

This answer key explains each of the 23 shape problems. Check the number of sides and corners first. Then check whether a fact is defining. Pictures show how shapes fit together.

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

#### Problem 1: Naming shapes

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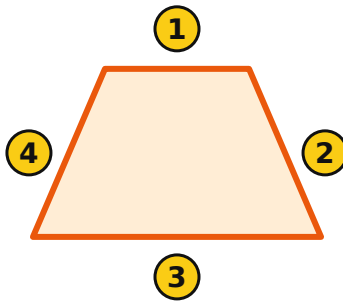
A triangle has 3 sides and 3 corners. Shape B has 3 sides.

**B is the triangle.**

#### Problem 2: Counting sides

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Touch and count each side: 1, 2, 3, 4.



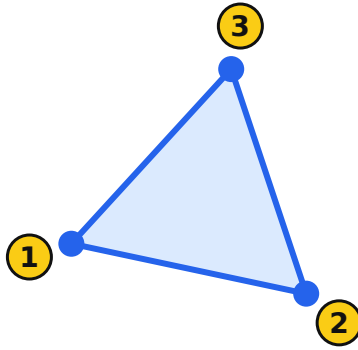
The sides are numbered 1 to 4.

**The shape has 4 sides.**

#### Problem 3: Counting corners

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Count each corner: 1, 2, 3.



The corners are numbered 1 to 3.

**The triangle has 3 corners.**

#### **Problem 4: Square or rectangle**

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

**It is a square.**

#### **Problem 5: Round shapes**

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(a) A circle is round. It has no straight sides. No.

(b) A circle has no corners. No.

**(a) No. (b) No.**

#### **Problem 6: Color does not matter**

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Each shape has 3 straight sides and 3 corners. Color is not a defining attribute.

**Yes, both are triangles.**

#### **Problem 7: Size and turn**

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Each shape is closed and has 3 straight sides and 3 corners. A shape stays the same when it is turned.

**Yes, all three are triangles.**

#### **Problem 8: Defining or not**

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(a) Three sides are needed for a triangle: D.

(b) Color does not matter: N.

(c) Turning does not change a triangle: N.

(d) A triangle must be closed: D.

**(a) D. (b) N. (c) N. (d) D.**

### **Problem 9: Not a triangle**

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A is a triangle. D is a triangle that is turned. B has a gap, so it is open. C has 4 sides.

**B and C are not triangles.**

### **Problem 10: Drawing a shape**

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Draw 4 straight sides that are all the same length. Make 4 square corners.



**square**

A square.

**The shape is a square.**

### **Problem 11: Name the solid**

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A cone has one flat circle and a pointed top. Solid C has a pointed top.

**C is the cone.**

### **Problem 12: Solids in real life**

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(a) A can of soup has two flat circles: cylinder.

(b) A party hat has a pointed top: cone.

(c) A number cube has square flat sides: cube.

**(a) cylinder. (b) cone. (c) cube.**

### Problem 13: No circles

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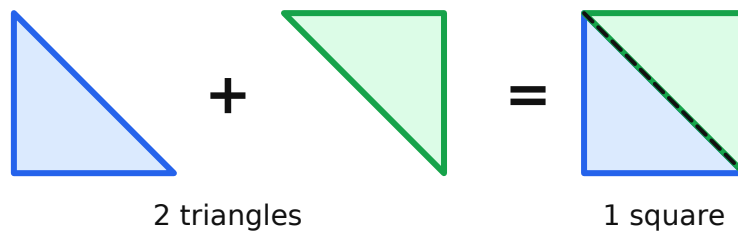
A cone has 1 flat circle. A cylinder has 2 flat circles. A cube has only squares.

**The cube has no flat circle.**

### Problem 14: Two triangles

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Slide the triangles together. The longest sides touch.



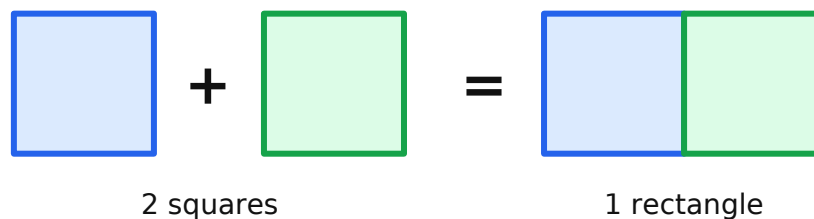
The dashed line shows where they touch.

**They make a square.**

### Problem 15: Two squares

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Slide the squares together.



Two squares make a rectangle.

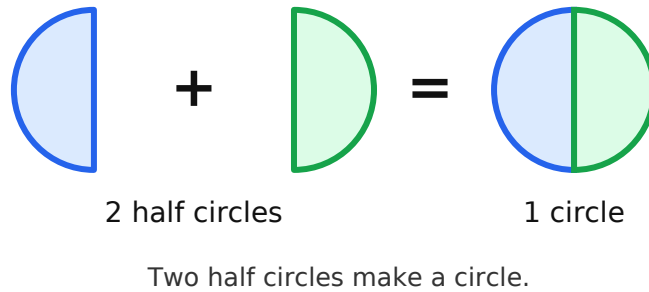
The new shape has 4 sides and 4 square corners, but two sides are longer.

**They make a rectangle.**

### Problem 16: Two half circles

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Put the straight edges together.



**They make a circle.**

### **Problem 17: Counting cubes**

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Count from the bottom: 1, 2, 3, 4, 5.

**There are 5 cubes.**

### **Problem 18: Sofia builds a house**

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A square has 4 sides. A triangle has 3 sides.

$$4+3=7$$

**The two shapes have 7 sides in all.**

### **Problem 19: Jamal joins squares**

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Count by twos: 2, 4, 6. That is 3 pairs.



Each pair makes a rectangle.

**Jamal can make 3 rectangles.**

### **Problem 20: Two towers**

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$$4+3=7$$

**They use 7 cubes in all.**

### **Problem 21: Aisha cuts squares**

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Each square makes 2 triangles.  $2+2=4$ , then  $4+2=6$ .

**Aisha will have 6 triangles.**

### **Problem 22: Mystery shape**

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(a) 4 equal sides and 4 square corners is a square.

(b) One square has 4 corners.  $4+4=8$ .

**(a) A square. (b) 8 corners.**

### **Problem 23: Sorting solids**

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(a)  $3+4=7$ , then  $7+2=9$ .

(b) Cylinders: 4. Cubes: 2.  $4-2=2$ .

**(a) 9 solids. (b) 2 more cylinders.**