Year 3 maths: Angles and right angles (Medium)

Maths · Shapes and space
Level: Medium

Student: _____ Date: _____

Instructions
- There are 9 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. Which best describes the angle between the hands?

Circle one answer.



○ **A** bigger than a right angle, smaller than a straight angle

○ **B** smaller than a right angle

○ **C** a straight angle

○ **D** a right angle

2. Which best describes the angle between the hands?

Circle one answer.



○ **A** a right angle

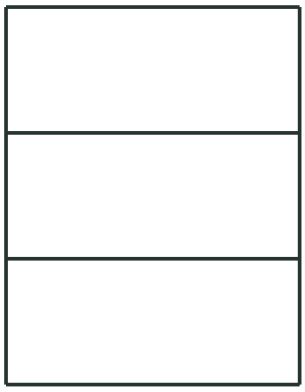
○ **B** bigger than a right angle, smaller than a straight angle

○ **C** smaller than a right angle

○ **D** a straight angle

3. How many right angles are in this design? Count every right angle: a square corner has 1, a T-join has 2 and a crossing has 4.

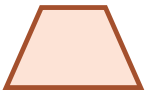
Answer: ☐ right angles



Working:

4. How many right angles does this trapezium have?

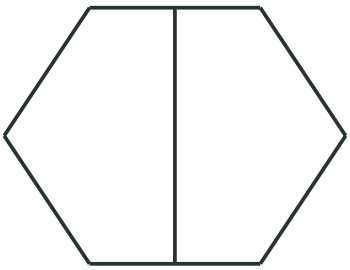
Answer: ☐ right angles



Working:

5. How many right angles are in this design? Count every right angle: a square corner has 1, a T-join has 2 and a crossing has 4.

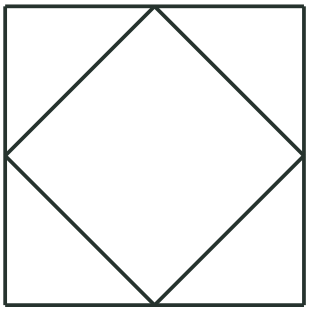
Circle one answer.



○ **A** 0 ○ **B** 2 ○ **C** 4 ○ **D** 6

6. How many right angles are in this design?

Circle one answer.



○ **A** 4 ○ **B** 8 ○ **C** 12 ○ **D** 16

7. A square is turned so that it stands on one corner, like a diamond. How many right angles does it have now?

Circle one answer.

○ **A** 8 ○ **B** 2 ○ **C** none ○ **D** 4

8. How many right angles are in this digital 8? Count every right angle: a square corner has 1, a T-join has 2 and a crossing has 4.

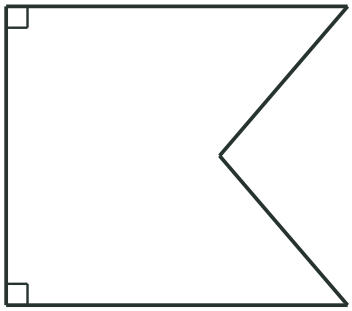
Circle one answer.



○ **A** 8 ○ **B** 4 ○ **C** 6 ○ **D** 10

9. How many angles inside this shape are less than a right angle?

Circle one answer.



○ **A** 4 ○ **B** 1 ○ **C** 2 ○ **D** 3

Answer key

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1. D — a right angle

9 o'clock: from 9 to 12 is 3 gaps, a quarter of the clock: a right angle.

2. C — smaller than a right angle

11 o'clock: from 11 to 12 is just 1 gap. Much smaller than a right angle.

3. 12 right angles

Corners: 4. The two lines across make 4 T-joins with the sides: 4 × 2 = 8. 4 + 8 = 12.

4. 0 right angles

Its bottom corners are sharp and its top corners are wide. None is a square corner: 0.

5. C — 4

The six corners of the shape are not square. The up-and-down line makes a T-join at the top and at the bottom: 2 + 2 = 4.

6. B — 8

The square has 4. The turned square inside it has 4 too. Where its corners touch the sides, the slanting gaps are not right angles. 4 + 4 = 8.

7. D — 4

Turning a shape never changes its angles. It is still a square, with 4 right angles.

8. A — 8

4 outside corners: 4. The middle line makes a T-join at each side: 2 + 2 = 4. 4 + 4 = 8.

9. C — 2

The two sharp corners next to the notch are less than a right angle. The two corners on the left are right angles, not less than one. The notch corner points into the shape and is wider than a straight line inside. 2.