# Year 5 maths: Angles: right, acute, obtuse, straight and reflex (Hard)

Maths · Shapes and space · Level: Hard

Student: _____ Date: _____

**Instructions**
- There are 10 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.** An angle measures 35 degrees. What kind of angle is it?

Circle one answer.

○ **A** right ○ **B** reflex ○ **C** acute ○ **D** obtuse

**2.** An angle measures 135 degrees. What kind of angle is it?

Circle one answer.

○ **A** reflex ○ **B** obtuse ○ **C** acute ○ **D** right

**3.** Which list is in order from the smallest angle to the largest?

Circle one answer.

○ **A** right, acute, obtuse, reflex, straight

○ **B** acute, obtuse, right, straight, reflex

○ **C** obtuse, acute, right, reflex, straight

○ **D** acute, right, obtuse, straight, reflex

**4.** A straight angle is split into two angles. One is 70 degrees. How many degrees is the other?

Answer: ☐ degrees

Working:

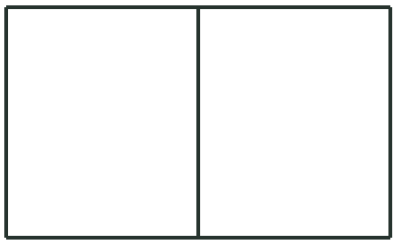
**5.** How many degrees are in three quarter turns?

Circle one answer.

○ **A** 180 ○ **B** 270 ○ **C** 300 ○ **D** 360

**6.** Count all the right angles in this design. Count every square corner where lines meet: corners, T-joins and crossings.

Answer: ☐ right angles



Working:

**7.** Which statement is true?

Circle one answer.

- ○ **A** A right angle is bigger than an obtuse angle
- ○ **B** An acute angle is bigger than a right angle
- ○ **C** An obtuse angle is bigger than a straight angle
- ○ **D** A reflex angle is bigger than a straight angle

**8.** Which statement is NOT true?

Circle one answer.

- ○ **A** A rectangle has four right angles
- ○ **B** A straight angle is two right angles
- ○ **C** An acute angle is less than a right angle
- ○ **D** A triangle can have two right angles

**9.** The hour hand of a clock turns 30° every hour. How many degrees does it turn from 12 o'clock to 4 o'clock?

Answer: ☐ °

Working:

**10.** A reflex angle measures 300°. How many more degrees complete a full turn?

Answer: ☐ °

Working:

# Answer key

Year 5 maths: Angles: right, acute, obtuse, straight and reflex (Hard) · Sheet 175592

**1.** C — acute
35 is less than 90: acute.

**2.** B — obtuse
135 is between 90 and 180: obtuse.

**3.** D — acute, right, obtuse, straight, reflex
Acute is under 90, right is 90, obtuse is 90 to 180, straight is 180 and reflex is above 180.

**4.** 110 degrees
180 − 70 = 110.

**5.** B — 270
3 × 90 = 270.

**6.** 8 right angles
A corner counts 1, a T-join 2 and a crossing 4.

**7.** D — A reflex angle is bigger than a straight angle
Reflex angles are between 180 and 360 degrees.

**8.** D — A triangle can have two right angles
Two right angles would already make a straight line, so a triangle cannot close up.

**9.** 120°
4 × 30 = 120°.

**10.** 60°
360 − 300 = 60°.