

## Year 4: Acute and obtuse angles: answers

Year 4 - Shapes, Angles and Symmetry - Lesson 9.2

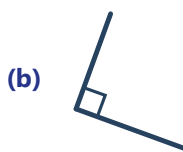
**Answers.** Final answers to the worksheet questions. Full step-by-step solutions for every question are free at [websink.site/ks2-sats/maths/year-4/ch09-shapes-angles-symmetry/acute-and-obtuse-angles/](https://websink.site/ks2-sats/maths/year-4/ch09-shapes-angles-symmetry/acute-and-obtuse-angles/)

### Exercise 9B Acute, right and obtuse angles Non-calculator

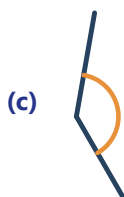
1 Name each angle. Write **acute**, **right angle** or **obtuse**.



**Answer:** acute



**Answer:** right angle

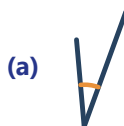


**Answer:** obtuse



**Answer:** acute

2 Is each angle acute or obtuse?



**Answer:** acute



**Answer:** obtuse

(c)



Answer: obtuse

(d)



Answer: acute

3 Write the missing word: **acute**, **obtuse**, **right angle** or **straight line**.

(a) An angle that is smaller than a right angle is called \_\_\_\_.

Answer: acute

(b) An angle that is bigger than a right angle but smaller than a straight line is \_\_\_\_.

Answer: obtuse

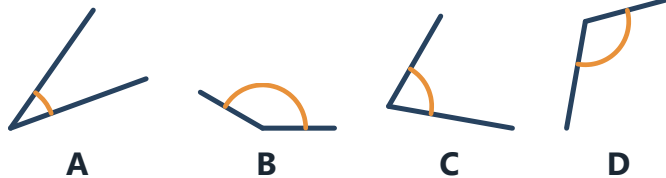
(c) Two right angles together make a \_\_\_\_.

Answer: straight line

(d) A quarter turn is a \_\_\_\_.

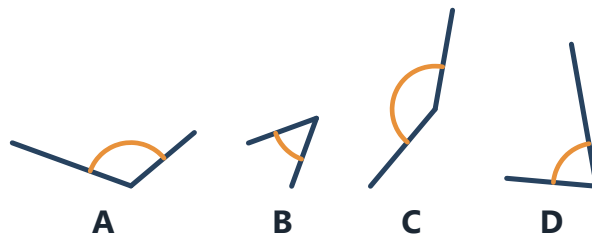
Answer: right angle

4 Which angle is the **biggest**? Write the letter.



Answer: B

5 Which angle is the **smallest**? Write the letter.



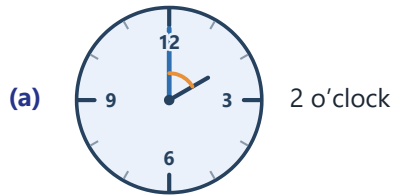
Answer: B

6 Write the angles in order, **smallest first**.

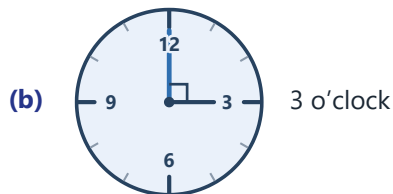


**Answer:** B, D, A, C

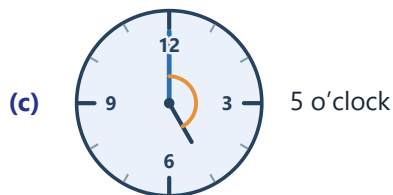
- 7 The clock shows an o'clock time. What kind of angle do the hands make? Write acute, right angle, obtuse or straight line.



**Answer:** acute



**Answer:** right angle

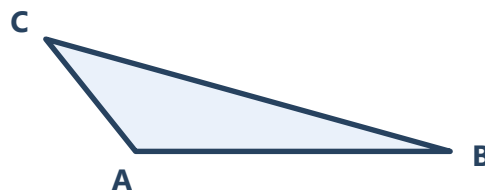


**Answer:** obtuse



**Answer:** straight line

- 8 Which angle in triangle ABC is obtuse? Write the letter.



**Answer:** A

- 9 This shape has four angles.



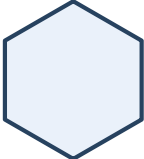
- (a) How many acute angles does the shape have?

**Answer:** 2

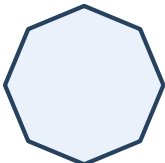
- (b) How many obtuse angles does the shape have?

**Answer:** 2

- 10** Every angle in a regular polygon is the same size. How many obtuse angles does each regular polygon have?

- (a)  regular hexagon

**Answer:** 6

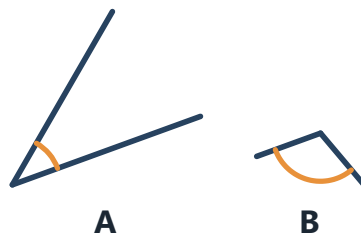
- (b)  regular octagon

**Answer:** 8

- 11** Mei draws 9 angles. 4 are acute and 2 are right angles. The rest are obtuse. How many obtuse angles does Mei draw?

**Answer:** 3

- 12** Leo says, "Angle A is bigger than angle B because its arms are longer." Is Leo right? Explain.



**Answer:** No. B is bigger (obtuse); A is acute

- 13** Write **always**, **sometimes** or **never** for each sentence.

- (a) An obtuse angle is bigger than a right angle.

**Answer:** Always

- (b) Two acute angles put together make an obtuse angle.

**Answer:** Sometimes

- (c) A right angle is an acute angle.

**Answer:** Never

- 14** Zainab wants to draw two obtuse angles side by side on a straight line. Can she do it? Explain your answer using right angles.

**Answer:** No. Two obtuse angles are more than 2 right angles