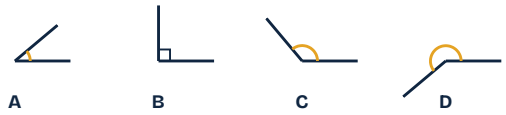
Angles

Name: _____ **Date:** _____

Remember: We measure angles in **degrees (°)**. A right angle is 90°, a quarter turn: **that is why we compare other angles with a right angle**: smaller is acute, between 90° and 180° is obtuse.

1. What kind of angle is A, B, C and D?



Answer: _____

2. How many degrees is a right angle?

Answer: _____

3. How many degrees is a straight angle?

Answer: _____

4. What kind of angle is each one? 75° · 105° · 180° · 270° · 360°

Answer: _____

5. What kind of angle do the hands of a clock make at 3:00?



Answer: _____

6. What kind of angle do the hands make at 6:00?

Answer: _____

7. Which is bigger: an angle of 89° or a right angle?

Answer: _____

8. How many right angles fit into one revolution?

Answer: _____

9. How many right angles does a rectangle have?

Answer: _____

10. You face north and make a quarter turn clockwise. Which direction do you face now, and through how many degrees did you turn?

Answer: _____

11. Two angles of 45° are put next to each other. How big is the new angle, and what kind of angle is it?

Answer: _____

12. The numbers on a clock are 30° apart. How big is the angle between the hands at 4:00, and what kind of angle is it?



Answer: _____

13. An angle is 3 times as big as a right angle. How big is it, and what kind of angle is it?

Answer: _____

14. Lerato says an angle of 190° is an obtuse angle. Is she right? Explain.

Answer: _____

15. Which angle do you get when you put two right angles next to each other?

Answer: _____

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I got _____ **out of 15** ⭐⭐⭐

Memorandum · Angles

1. **A = acute angle; B = right angle; C = obtuse angle; D = reflex angle**
   compare with a right angle (90°) and a straight line (180°)

2. **90°**
   a quarter turn: 360° ÷ 4 = 90°

3. **180°**
   a half turn: 2 × 90° = 180°

4. **75° acute angle; 105° obtuse angle; 180° straight angle; 270° reflex angle; 360° revolution**
   less than 90° acute; between 90° and 180° obtuse; between 180° and 360° reflex

5. **a right angle (90°)**
   the hands point to 12 and 3: a quarter turn

6. **a straight angle (180°)**
   the hands point to 12 and 6: a straight line

7. **the right angle (90°)**
   89° < 90°

8. **4**
   360° ÷ 90° = 4

9. **4**
   all four angles of a rectangle are 90°

10. **east; 90°**
    north → east is a quarter turn = 90°

11. **90°; right angle**
    45° + 45° = 90°

12. **120°; obtuse angle**
    4 × 30° = 120°

13. **270°; reflex angle**
    3 × 90° = 270°

14. **No: 190° is more than 180°, so it is a reflex angle.**
    obtuse is between 90° and 180°; 190° > 180°

15. **a straight angle (180°)**
    90° + 90° = 180°

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