

CBSE Class 6 Mathematics

Lines and Angles — Mental Ability Worksheet

This worksheet has 25 mixed questions (Fill in the Blanks, MCQs, True/False, and Mental Math) designed to test quick thinking and conceptual clarity on Lines and Angles. Try to answer the 'Solve Mentally' questions without using pen, paper, or a protractor.

Name: _____ Class: 6 _____ Section: _____ Date: _____

25 Mixed Questions (1 mark each)

1. A line segment has _____ end points. [Fill in the Blank]

Answer: _____

2. An angle of 90° is called a: [Choose the Correct Answer]

(a) Acute angle (b) Right angle (c) Obtuse angle (d) Reflex angle

3. A ray extends endlessly in both directions. [True or False]

Answer: _____

4. What is the angle between the hands of a clock at 12 o'clock? [Solve Mentally (no pen/paper)]

Answer: _____

5. Two lines meeting at 90° are called _____ lines. [Fill in the Blank]

Answer: _____

6. If one angle of a linear pair is 70° , find the other angle instantly. [Solve Mentally (no pen/paper)]

Answer: _____

7. A straight angle measures: [Choose the Correct Answer]

(a) 90° (b) 180° (c) 270° (d) 360°

8. All right angles are equal to each other. [True or False]

Answer: _____

9. How many right angles make a full turn? [Solve Mentally (no pen/paper)]

Answer: _____

10. The common point of two rays forming an angle is called the _____. [Fill in the Blank]

Answer: _____

11. Which angle is bigger than a straight angle? [Choose the Correct Answer]

(a) Acute (b) Right (c) Obtuse (d) Reflex

12. What is the complement of 60° (angle that adds with it to make 90°)? [Solve Mentally (no pen/paper)]

Answer: _____

13. Vertically opposite angles formed by two intersecting lines are always equal. [True or False]

Answer: _____

14. An angle less than 90° is called an _____ angle. [Fill in the Blank]

Answer: _____

15. At what time do the hands of a clock form a straight angle (180°)? [Solve Mentally (no pen/paper)]

Answer: _____

16. A ray has: [Choose the Correct Answer]

(a) Two end points (b) One end point (c) No end points (d) Three end points

17. What is the supplement of 110° (angle that adds with it to make 180°)? *[Solve Mentally (no pen/paper)]*

Answer: _____

18. A reflex angle is always greater than 180° and less than 360° . *[True or False]*

Answer: _____

19. One complete rotation of a ray equals _____ degrees. *[Fill in the Blank]*

Answer: _____

20. If two lines cross, how many angles are formed at the point of intersection? *[Solve Mentally (no pen/paper)]*

Answer: _____

21. The angle between hands of a clock at 6 o'clock is: *[Choose the Correct Answer]*

(a) 90° (b) 120° (c) 150° (d) 180°

22. How many degrees does the minute hand move in 30 minutes? *[Solve Mentally (no pen/paper)]*

Answer: _____

23. An obtuse angle can be equal to exactly 90° . *[True or False]*

Answer: _____

24. The instrument used to measure the size of an angle is called a _____. *[Fill in the Blank]*

Answer: _____

25. What type of angle is 179° — acute, right, obtuse, or straight? *[Solve Mentally (no pen/paper)]*

Answer: _____

Answer Key — Mental Ability Worksheet

1. Two
2. (b) Right angle
3. False — a ray extends endlessly in only one direction
4. 0°
5. perpendicular
6. 110° ($180^\circ - 70^\circ$)
7. (b) 180°
8. True
9. Four right angles
10. vertex
11. (d) Reflex
12. 30° ($90^\circ - 60^\circ$)
13. True
14. acute
15. 6 o'clock
16. (b) One end point
17. 70° ($180^\circ - 110^\circ$)
18. True
19. 360
20. Four angles
21. (d) 180°
22. 180° (minute hand moves 6° per minute; $30 \times 6^\circ = 180^\circ$)
23. False — an obtuse angle is strictly greater than 90°
24. protractor
25. Obtuse angle (just under 180°)