Lines and Angles

Standard difficulty · 20 questions · 40 marks · Time: 28 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. An angle of 50° is:
(a) obtuse **(b)** right **(c)** straight **(d)** acute

2. What is the smaller angle between the hands of a clock at 10 o'clock?
(a) 60° **(b)** 300° **(c)** 90° **(d)** 50°

3. An angle smaller than a right angle is called:
(a) straight **(b)** reflex **(c)** acute **(d)** obtuse

4. You face North and turn anticlockwise through 135°. Which way do you face now?
(a) North-West **(b)** South-East **(c)** South-West **(d)** North

5. An angle is 95°. The reflex angle that makes a full turn with it is:
(a) 265° **(b)** 455° **(c)** 175° **(d)** 85°

6. Two angles together make a straight angle. One is 101°. The other is:
(a) 281° **(b)** 79° **(c)** 169° **(d)** 259°

7. A line segment has:
(a) three end points **(b)** one end point
(c) two end points **(d)** no end points

8. What angle is 5/8 of a full turn?
(a) 255° **(b)** 112° **(c)** 225° **(d)** 56°

Section B — Short answer — 8 × 2 = 16 marks

9. Through how many degrees does the minute hand of a clock turn in 6 minutes?

10. Facing South, you make 2 right-angle turns clockwise. Which way do you face, and through how many degrees did you turn?

11. Three angles fit together around a point to make a full turn. Two of them are 63° and 81°. Find the third.

12. An angle measures 326°. What kind of angle is it? How much more would make a full turn?

13. A straight angle is split into three angles. Two of them are 51° and 34°. Find the third.

14. How many degrees is 2 full turns and 1/10 of a turn?

15. Through how many degrees does the hour hand turn from 8 o'clock to 12 o'clock?

16. Name the type of each angle: 251°, 180°, 307°.

Section C — Word problems — 4 × 4 = 16 marks

17. Ananya stands facing North and turns clockwise through 270°. Which direction does Ananya face now? What fraction of a full turn was it?

18. School starts at 7 o'clock in the morning and ends 4 hours later. Through how many degrees does the hour hand turn during the school day, and through how many full turns does the minute hand go?

19. A slide in a park makes an angle of 23° with the flat ground on one side. What angle does it make with the ground on the other side? What kind of angle is that?

20. A pizza is cut into 24 equal pieces, all meeting at the centre. What is the angle at the centre of each piece? Is it acute, right or obtuse?

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Answer key

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Q	Answer	Working
1	**(d) acute**	less than 90°
2	**(a) 60°**	the hands are 2 hour marks apart; each is 30°
3	**(c) acute**	less than 90°
4	**(c) South-West**	a turn of 3/8 of a full turn
5	**(a) 265°**	360° − 95° = 265°
6	**(b) 79°**	180° − 101° = 79°
7	**(c) two end points**	—
8	**(c) 225°**	5/8 of 360° = 225°
9	**36°**	60 minutes is 360°, so 1 minute is 6°: 6 × 6 = 36
10	**North; 180°**	2 × 90° = 180°
11	**216°**	360° − 63° − 81° = 216°
12	**reflex; 34° more**	360° − 326° = 34°
13	**95°**	180° − 51° − 34° = 95°
14	**756°**	1/10 × 360° = 36° plus 2 × 360°
15	**120°**	4 hours × 30° = 120°
16	**reflex, straight, reflex**	acute < 90° < obtuse < 180° < reflex < 360°
17	**West; 6/8 of a full turn**	each 45° is one step round the 8 directions: 6 steps
18	**120°; 4 full turns**	4 × 30° = 120°; the minute hand makes one full turn every hour (ends at 11 o'clock)
19	**157°; obtuse**	angles on a straight line add up to 180°: 180° − 23°
20	**15°; acute**	360° ÷ 24 = 15°