Angles as Turns

Standard difficulty · 20 questions · 40 marks · Time: 54 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. The minute hand moves for 10 minutes. What part of a full turn does it make?
(a) 2/3 turn **(b)** 1/3 turn **(c)** 3/4 turn **(d)** 1/6 turn

2. At 9 o'clock the minute hand starts at 12 and turns 5/6 of a full turn. What time is it now?
(a) 9:50 **(b)** 9:55 **(c)** 9:10 **(d)** 10:50

3. You face East. You turn 1 right angle anticlockwise. Which way do you face now?
(a) South **(b)** West **(c)** East **(d)** North

4. The minute hand turns clockwise from 8 to 9. What kind of angle does it turn through?
(a) Acute **(b)** Right **(c)** Obtuse **(d)** Straight

5. A quarter turn makes:
(a) a right angle **(b)** an acute angle
(c) a full turn **(d)** a straight angle

6. A 1/4 turn followed by a 1/3 turn in the same direction makes:
(a) 1/2 turn **(b)** 5/6 turn **(c)** 1/6 turn **(d)** 7/12 turn

7. How many 1/12-turn pieces make a straight angle?
(a) 7 **(b)** 6 **(c)** 12 **(d)** 26

8. The minute hand points to 7. It turns 1/2 of a turn clockwise. Which number does it point to now?
(a) 2 **(b)** 1 **(c)** 7 **(d)** 12

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

9. What part of a full turn does the minute hand make in 50 minutes?

10. Face East. Turn 2 right angles anticlockwise. Which way are you facing?

11. How many minutes does the minute hand take to turn 5/12 of a full turn?

12. The minute hand moves clockwise from 11 to 1. What part of a turn is this, and how many minutes pass?

13. Gita faced West. She turned clockwise and now faces East. How many right angles did she turn?

14. How many 1/12 turns make a 3/4 turn?

15. A 1/3 turn: is it acute, right, obtuse, straight, or more than a straight angle?

16. From 2:25 to 2:55, what part of a full turn does the minute hand make? Is it more than half a turn?

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

17. A robot faces West. It is told: turn 3 right angles clockwise; then turn 3 right angles clockwise; then turn 2 right angles anticlockwise. (a) Which way does it face after each turn? (b) Which way does it face at the end?

18. Neel reads for 15 minutes, starting at 4:00, and then plays for 40 minutes. (a) What part of a turn did the minute hand make while Neel read? (b) What part of a turn did it make in all? (c) What time is it at the end?

19. Write the kind of angle for each turn: 7/12 turn, 1/3 turn, 5/12 turn, 5/6 turn.

20. Ravi makes an angle tool from paper pieces, each 1/12 of a turn. (a) How many pieces make a right angle? (b) A straight angle? (c) A full turn? (d) What part of a turn do 1 piece make, and what kind of angle is it?

Want another sheet on this chapter? In the Ambiful Worksheets app every sheet is new, with its answer key, and your child never gets the same question twice.
Scan the code to get the free app, or open **worksheets.ambiful.com/get**

Answer key

Angles as Turns · AW-5M-TRN-2026-V1 · For parents — fold back or tear off before handing the sheet to your child.

Q	Answer	Working
1	**(d) 1/6 turn**	60 minutes is a full turn, so 10 minutes is 10/60 = 1/6
2	**(a) 9:50**	a full turn is 60 minutes; 5/6 of 60 = 50
3	**(d) North**	1 right angle anticlockwise
4	**(a) Acute**	1 step of 5 minutes = 1/12 turn; a right angle is 1/4 turn
5	**(a) a right angle**	—
6	**(d) 7/12 turn**	3/12 + 4/12 = 7/12
7	**(b) 6**	a straight angle = 1/2 turn = 6/12
8	**(b) 1**	1/2 turn = 6 numbers on the clock
9	**5/6**	50/60 = 5/6
10	**West**	—
11	**25 minutes**	5/12 of 60
12	**1/6 turn; 10 minutes**	2 numbers × 5 minutes
13	**2**	—
14	**9**	3/4 = 9/12
15	**Obtuse**	a right angle is 1/4 turn and a straight angle is 1/2 turn
16	**1/2 turn; no**	30 minutes = 1/2 turn
17	**(a) South, East, West; (b) West**	—
18	**(a) 1/4 turn; (b) 11/12 turn; (c) 4:55**	15 + 40 = 55 minutes
19	**7/12: more than a straight angle; 1/3: obtuse; 5/12: obtuse; 5/6: more than a straight angle**	acute < 1/4 turn = right < obtuse < 1/2 turn = straight
20	**(a) 3; (b) 6; (c) 12; (d) 1/12 turn, acute**	a right angle = 1/4 turn = 3/12

Ambiful Worksheets · worksheets.ambiful.com · Not affiliated with CBSE / NCERT