WONDERLEARNERZ PRIMARY ACADEMY â€¢ PRACTICE & ASSESSMENT WORKSHEET

Angles and Turns: Worksheet 1

Grade 5 | Mathematics | Ch 6: Angles and Turns | Total Marks: 19 | Time: 45 Minutes

Student Name: _____ **Roll / ID No:** _____

Grade / Section: _____ **Date:** _____ **Score:** _____ / 19

Instructions: Section A (Q1-Q4): Choose the correct option (A, B, C, or D). Section B (Q5-Q9): Write your exact one-word or numerical answer. Section C & D (Q10-Q15): Write your detailed answers, corrections, and show all working steps neatly in the space provided.

Q1. How many degrees are in a full turn (one complete rotation)? **[1 Mark]**

( ) A. 360Â°
( ) B. 180Â°
( ) C. 90Â°
( ) D. 270Â°

Q2. A dancer standing facing North makes a 90Â° clockwise turn. Which direction is the dancer now facing? **[1 Mark]**

( ) A. East
( ) B. South
( ) C. West
( ) D. North-East

Q3. How many right angles make up a half turn (180Â°)? **[1 Mark]**

( ) A. 2 right angles
( ) B. 1 right angle
( ) C. 3 right angles
( ) D. 4 right angles

Q4. From 12:00 to 12:15, what fraction of a full turn does the minute hand of a clock make? **[1 Mark]**

( ) A. 1/4 turn
( ) B. 1/2 turn
( ) C. 3/4 turn
( ) D. 1 full turn

Q5. At the City Regional Airport, a robotic sensor faces West. If the sensor makes a 3/4 turn (270Â°) clockwise, which direction does it now face? **[1 Mark]**

Q6. A pirate ship sailing South turns 90Â° anticlockwise to evade a reef. Which compass direction is the ship now steering? **[1 Mark]**

Q7. How many degrees does the minute hand on a grandfather clock sweep through between 3:00 and 3:40? **[1 Mark]**

Q8. Complete the angle turn equation: 1 full turn = [?] quarter turns. **[1 Mark]**

Q9. Fill in the missing degrees: 1/2 turn + 1/4 turn = [?]Â°. **[1 Mark]**

Q10. Sam says: 'Turning 180Â° clockwise puts you in a different direction than turning 180Â° anticlockwise.' Explain why Sam's statement is incorrect. **[1 Mark]**

Q11. A scout claims: 'Facing North and turning 360Â° leaves me facing South.' Identify the error and state the correct direction. **[1 Mark]**

Q12. Explain why angles are measured in degrees rather than linear units like centimeters. **[2 Marks]**

Q13. How are compass directions (N, E, S, W) related to multiples of 90Â° turns? **[2 Marks]**

Q14. A camera rotates 45Â° clockwise, then 180Â° clockwise, and finally 90Â° anticlockwise. What is the net turn from its original heading? **[2 Marks]**

Q15. How many total degrees does the hour hand of an analog clock turn in 7 hours? **[2 Marks]**