Name: **Grade:** **Score:**

Worksheet #5

ORDERING INTEGERS

Learning goal: Students will apply the concept of ordering integers to real-life contexts such as temperatures, bank balances, heights, and game scores.

1. The mid-day temperatures in four deserts: Sahara = +38°C, Antarctica = -25°C, Gobi = +5°C, Atacama = +15°C. Arrange in ascending order.

2. The results of four rounds of a card game (positive points are gains): Round 1 = +100, Round 2 = -150, Round 3 = -50, Round 4 = +75. Arrange the rounds in ascending order of outcome (worst to best round).

3. The depths of four roots measured from the surface: Plant A = -15 cm, Plant B = -8 cm, Plant C = -20 cm, Plant D = -5 cm. Arrange in descending order (closest to surface to deepest).

4. The yearly population change of four towns (in thousands): Town J = +1.5, Town K = -0.8, Town L = -2.1, Town M = +0.5. Arrange in descending order (fastest growing to fastest shrinking).

5. The water levels of four reservoirs (compared to normal level): Reservoir 1 = -4 m, Reservoir 2 = +1 m, Reservoir 3 = -10 m, Reservoir 4 = -2 m. Arrange in ascending order (driest to fullest).

6. The points scored in a trivia game with bonuses and penalties: Team Red = +30, Team Blue = -10, Team Green = +45, Team Yellow = +5. Arrange in ascending order.

7. The weekly change in a student's savings: Week 1 = +₹200, Week 2 = -₹50, Week 3 = +₹150, Week 4 = -₹100. Arrange the weekly changes in ascending order (biggest loss to biggest gain).

Name: **Grade:** **Score:**

Worksheet #5(Answers)

MeandMath

ORDERING INTEGERS

Learning goal: Students will apply the concept of ordering integers to real-life contexts such as temperatures, bank balances, heights, and game scores.

1. The mid-day temperatures in four deserts: Sahara = +38°C, Antarctica = -25°C, Gobi = +5°C, Atacama = +15°C. Arrange in ascending order.

Solution: -25°C, +5°C, +15°C, +38°C

2. The results of four rounds of a card game (positive points are gains): Round 1 = +100, Round 2 = -150, Round 3 = -50, Round 4 = +75. Arrange the rounds in ascending order of outcome (worst to best round).

Solution: -150 (R2), -50 (R3), +75 (R4), +100 (R1)

3. The depths of four roots measured from the surface: Plant A = -15 cm, Plant B = -8 cm, Plant C = -20 cm, Plant D = -5 cm. Arrange in descending order (closest to surface to deepest).

Solution: -5 cm (D), -8 cm (B), -15 cm (A), -20 cm (C)

4. The yearly population change of four towns (in thousands): Town J = +1.5, Town K = -0.8, Town L = -2.1, Town M = +0.5. Arrange in descending order (fastest growing to fastest shrinking).

Solution: +1.5 (J), +0.5 (M), -0.8 (K), -2.1 (L)

5. The water levels of four reservoirs (compared to normal level): Reservoir 1 = -4 m, Reservoir 2 = +1 m, Reservoir 3 = -10 m, Reservoir 4 = -2 m. Arrange in ascending order (driest to fullest).

Solution: -10 m (R3), -4 m (R1), -2 m (R4), +1 m (R2)

6. The points scored in a trivia game with bonuses and penalties: Team Red = +30, Team Blue = -10, Team Green = +45, Team Yellow = +5. Arrange in ascending order.

Solution: -10 (Blue), +5 (Yellow), +30 (Red), +45 (Green)

7. The weekly change in a student's savings: Week 1 = +₹200, Week 2 = -₹50, Week 3 = +₹150, Week 4 = -₹100. Arrange the weekly changes in ascending order (biggest loss to biggest gain).

Solution: -₹100 (W4), -₹50 (W2), +₹150 (W3), +₹200 (W1)