1 Integers

WORKSHEET

INTEGERS

A. Tick (✓) the correct answer.

1. The additive inverse of $|-8|$ is

   a. 8 ☐ b. $-|8|$ ☐

   c. $|-8|$ ☐ d. 1 ☐

2. -8×7 has the same value as

   a. $|-8| \times |-7|$ ☐ b. $|8| \times |7|$ ☐

   c. $|-8| \times |7|$ ☐ d. $-|8 \times 7|$ ☐

3. $(-2) \times (-2) \times (-2) \times \ldots$ 7 times =

   a. 128 ☐ b. –128 ☐

   c. 64 ☐ d. –64 ☐

4. $(-8) + (-10) \div (-2) \times 3 =$

   a. 2 ☐ b. –7 ☐

   c. 7 ☐ d. –3 ☐

5. $||-8|+8| \div ||17|-21| =$

   a. 4 ☐ b. –4 ☐

   c. 2 ☐ d. –2 ☐

B. Fill in the blanks.

1. Zero is _____ than every negative integer.

2. $(-105) + (-105) =$ _____

3. If the difference between an integer a and (–7) is –1, the value of a is _____

4. The multiplicative inverse of –100 is _____

5. (–75) ÷ _____ = 75.

C. Solve the following.

1. The scores of Team A and Team B in five successive rounds of a quiz are as follows.
   Team A: 9, –1, 14, –12 and 25; Team B: 10, –8, 12, –5 and 21
   Which team scored more?
2. The sum of two integers is –30. If one of the integers is 15, determine the other.
3. Evaluate the following.
   a. (–5) × (–11) × (25) × (–4)
   b. (–234) ÷ (–13)
4. What will be the sign of the product if we multiply the following?
   a. 105 negative integers and 3 positive integers.
   b. 64 negative integers and 1 positive integer.
5. Simplify: (25 ÷ 5) ÷ [5 ÷ (–1)].

D. Solve the following.

1. A test paper contains 10 questions. 4 marks are awarded for each correct answer, (–1) marks for each wrong answer and 0 marks for question not attempted.
   a. Ramesh gets 5 correct answers, 4 wrong answers and 1 question is not attempted. What is his score?
   b. Reena gets 5 correct answers and 5 wrong answers. What is her score?
   c. Neha gets 4 correct answers and 6 wrong answers. What is her score?
2. An aeroplane is flying at a height of 2000 m. If it descends at a constant rate of 70 m/minute, how long will it take to descend to a height of 600 m?

E. Solve the following.

The temperature recorded at 12 noon was 24 °C above zero. If it decreases at the rate of 2 °C per hour until midnight, then at what time would the temperature be 4 °C above 0 °C?