# 1 Integers

# WORKSHEET

# INTEGERS

A. Tick (✓) the correct answer.

1. The additive inverse of |-8| is

c. |-8|

**b.** - | 8 |



2.  $-8 \times 7$  has the same value as

**a.** 
$$|-8| \times |-7|$$

**b.** 
$$|8| \times |7|$$

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

**d.** 
$$-|8 \times 7|$$

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

c. 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

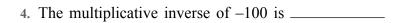
**d.** −2

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 \_\_\_\_\_\_



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. 
$$(-5) \times (-11) \times (25) \times (-4)$$

b. 
$$(-234) \div (-13)$$

- 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:  $(25 \div 5) \div [5 \div (-1)]$ .

### 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?