

Bhavan's V. M. Public School, Baroda

Ch-1.Integers

1. State whether the given statements are true or false:

- a) $0 \div 10 = 0$ b) $(-12) \div 0 = 0$ c) $(-8) \div (-1) = (-8)$
d) The product of 51 negative integers is positive.

2.Fill in the blanks:

- a) _____ + (-5) = 0. b) $(-4) + (-6) - 8 =$ _____. c) $97 \div (-97) =$ _____.
d) $8 + [6 - (-2)] =$ _____. e) $20 \times 67 \times (-10) =$ _____.

3. Do as directed: a) Find a pair of integers whose sum is (-3).

b) Find a pair of integer whose difference is (-2).

4. State which is greater:

- a) $(8 + 3) \times 10$ or $8 + 3 \times 10$? b) $(7 - 9) \times 10$ or $7 - 9 \times 10$?
c) $\{(-2) - 3\} \times (-6)$ or $(-2) - 3 \times (-6)$?

5. Verify the following:

- a) $19 \times \{7 + (-3)\} = 19 \times 7 + 19 \times (-3)$ b) $(-23) \times \{(-5) + 19\} = (-23) \times (-5) + (-23) \times 19$

6. Find the value of using properties:

- a) $1487 \times 327 + (-487) \times 327$ b) $28945 \times 99 - (-28945)$ c) $15625 \times (2) + (15625) \times 98$
d) $18946 \times 99 - (-18946)$ e) $1569 \times 887 - 569 \times 887$

7. Find :

- a) $(-125) \times 8$ b) $9 \times (-3) \times (-6)$ c) $(-1) \times (-2) \times (-3) \times (-4) \times (-5)$ d) $(-12) \times (-4) \times (-5)$
e) $(-3) \times (-6) \times (-9) \times (-12)$

8. Divide: a) (-98) by (-14) b) 324 by (-27) c) (-1728) by 12 d) (-15625) by 125

e) 5000 by (-100)

9. Simplify: $\{36 \div (-9) \times 3\} \div \{(-24) \div 6\}$

10. Solve:

- a) The sum of two numbers is (-75). If one number is 50, find the other.
- b) In a quiz, student gain +4 marks for every correct answer and -1 for every incorrect answer. If a student gives 5 correct answers and 3 wrong answers, what will be his final score?
- c) The temperature on Thursday was 20°C. On Friday it decreased by 1°C. It further increased by 2°C on Saturday. What was the temperature on Saturday?
- d) At the end of the winter seasons a shopkeeper earns a profit of Rs 100 by selling a shirt but incures a loss of Rs 50 on selling a woolen jacket. At the end of the sale, he incurred a loss of Rs 200 while he sold 10 jackets. How many shirts did he sell?
- e) Every floor of a 104 storey skyscraper is 4 m high. If a balloon rises 3m every second, how long will it take to rise from the 36 th floor to the 96th floor?
- f) A boy flung a pebble 15 m high in the air which fell and settled at the bottom of a pond 10 m deep. By how much distance did the pebble fall?

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Ms Rani Rauthan