

INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2023-24

CLASS: VII SUBJECT: MATHEMATICS DATE: 08-05-2023

LESSON:01 - INTEGERS

1. Write the additive inverse of:

a) 12          b) -82

2. Fill in the blanks:

a)  $(-35) + \underline{\hspace{2cm}} = (-35)$

b)  $\{(-31) + 54\} + (-10) = (-31) + \{54 + (\underline{\hspace{1cm}})\}$

c)  $91 \div \underline{\hspace{1cm}} = (-1)$

d)  $(-77) + (-48) = (\underline{\hspace{2cm}}) + (-77)$

e)  $\underline{\hspace{1cm}} \times (-23) = 23$

3. Write down the pair of positive integers whose difference is more than (-4)

4. Write down the pair of integers whose

a) Sum is (-7)                  b) difference is (-1)

5. Solve:

a)  $(-22) + 37$

b)  $(-48) + (-21) + 30$

c)  $(-75) - (-42)$

d)  $(-32) \times (-50)$

e)  $[(-8) \times (-7)] \div [(-10) + (-4)]$

f)  $(-49) \div [(-7) \times 7]$

6. Use suitable property and solve

a)  $362 \times 32 - 362 \times 2$

b)  $4 \times (-112) \times 25$

c)  $(-111) \times (-89) + 111$

7. In a quiz, positive marks are given for correct answers and negative marks are given for incorrect answers. If Rita's score in successive rounds were 20, -15, -10, 15 and -5, What was her total score at the end?
8. In a test, 5 marks are given for every correct answer and (-3) mark are given for every incorrect answer and no marks for not attempting questions. Neha scored 30 marks. If she has got 15 correct answers, how many questions has she attempted incorrectly?
9. A hot air balloon begins to descend towards the ground from a height of 2250 feet. If it descends at the rate of 150 feet per minute, find the height after 12 minutes.
10. A certain freezing process requires that room temperature be lowered from 40°C at the rate of 5°C per hour. What will be the room temperature 10 hours after the process begins?
11. Verify the following:
  - a)  $32 \times [(-26) + 5] = [32 \times (-26)] + [32 \times 5]$
  - b)  $(-48) \div [(-24) \div 2] \neq [(-48) \div (-24)] \div 2$

**Answers:**

1. a) -12 b) 82      2) a) 0      b) -10      c) -91  
     d) -48      e) -1      3) (6,4)      4) a) (-5,-2)      b) (-8,-7)
- 5) a) 15      b) -39      c) -33      d) 1600      e) 4      f) 1
- 6) a) 10860, Distributive property of multiplication over subtraction  
     b) 11200, commutative property of multiplication  
     c) 9990, Distributive property of multiplication over addition
- 7) 5      8) 15      9) 450feet      10) -10°C

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