

INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2024-25

CLASS: 7 / SUBJECT: Maths

LESSON : 1 INTEGERS

1. Write down a pair of integers whose:

i) sum is - 6

ii) difference -8

iii) difference 3

iv) sum 0

2. Find :

a) $(-171) \times (-5)$

b) $(-36) \times 4$

c) $918 \times \underline{\hspace{2cm}} = 0$

d) $\underline{\hspace{2cm}} \times (-21) = 105$

e) $257 \times \underline{\hspace{2cm}} = (-257)$

f) $18 \div (-3) =$

g) $0 \div (-86) =$

h) $(-126) \div (-42) =$

i) $(-139) \div \underline{\hspace{2cm}} = 1$

j) $(-38) \div [(-19) + (-19)]$

k) $117 \div [2 + (-1)]$

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

3. The temperature at a place rises from -20°C to 20°C . What is the rise in temperature ?

4. The price of a machine depreciates at the rate of ₹1500 per year. If it was bought for ₹ 15800, What will be its price after 5 years?

5. Manvita deposits Rs. 5000 in her bank account. After two days she withdraws Rs. 3748 from it. If the amount deposited is a positive integer. How will you represent the amount withdrawn and also find the balance amount in the account?

6. In the rapid fire round of a quiz competition, 3 points are awarded for every correct answer and (-1) point is awarded for every wrong answer.

a. Team A answered all 15 questions and only 10 answers were correct, What was the total score?

b. Team B also answered 15 questions and only 9 were correct. Find the total score.

7. Find the product with suitable properties for the following-

a) $16 \times (-34) + (-34) \times (-18)$

b) $23 \times -36 \times 10$

c) $(-102) \times 75$

d) $1401 \times (-82) + (-1401) \times 18$

e) $(-199) \times 25$

8. A fruit merchant earns a profit of Rs. 66 per bag of orange sold and a loss of Rs. 44 per bag of grapes sold. Merchant sells 1800 bags of orange and 2500 bags of grapes.

a) What is the total profit or loss?

b) What is the number of bags of oranges to be sold to have neither profit nor loss if number of grapes bags sold is 900?

9. In a CET Examination (+2) marks are given for every correct answer and (-0.5) marks are given for every wrong answer and 0 for non-attempting any question.

- a. Likitha scores 30 marks. If she got 20 correct answers, how many questions she has attempted incorrectly?
 b. Saara scores -4 marks if she got 3 correct answers. How many were incorrect?

10. Verify that:

- a) $(-48) \div [12 \div (-4)] \neq [(-48) \div 12] \div (-4)$
 b) $54 \times (-72) + (-72) \times (-44) = (-72)[54 + (-44)]$

11. Write four pairs of integers whose product is -36

12. Simplify the following:

- a) $-3 \times [(-10) + 16]$
 b) $-15 \div [10 \div (-2)]$

13. A parachute descends at the rate of 25m per minute. At a particular time, it was at a height of 1850 m above the ground level. How long will it take to reach the height 250m above the ground level?

ANSWERS

1. Students choice
2. a) 855 b) -144 c) 0 d) -5 e) -1 f) -6 g) 0 h) 3 i) -139
 j) +1 k) 117 l) -4
3. 40 °c
4. ₹8300 (15800-7500)
5. -3748, ₹1252
6. a) $30 + -5=25$ b) $27 + -6 =21$
7. a) Distributive, 68
 b) associative,-8280
 c) distributive,-7650
 d)Distributive,-140100
 e)Distributive,-4975
8. total profit = $118800 - 110000 = 8800$;
 Total loss from 900 bags of grapes = $900 \times 44 = \text{Rs. } 39600$
 profit = $39600/66 = 600$
9. a) $(-10/-0.5)=20$ b) $(-10/-0.5)=20$
10. show LHS=RHS
11. students choice
12. a) =18 b)+3
13. $250-1850=-1600$, $-1600/-25=64$ minutes