Worksheet -12 RT Subject: - Mathematics Class: - VII Teacher: - Ms. Neeru

Name: _____ Class & Sec: _____ Roll No. _____ Date:12.05.2020

Ch1 Test

Integer Operations

Adding Integers

1) 85 + (-96) = _____ 2) 80 + 57 = _____ 3) 86 + (-38) = _____

4) 22 + (-41) = _____ 5) -18 + (-45) = _____ 6) -32 + 48 = _____

7) 6 + (-33) = _____ 8) 6 + (-47) = _____ 9) (-78) + 69 = _____

10) -72 + (-30) + 10 = _____ 11) -83 + (-36) + 20 = _____

Subtracting Integers

1) 1 – 3 = _____ 2) 2 – (-5) = _____ 3) 6 – (-9) = _____

4) -7 – (-1) = _____ 5) -7 – 4 = _____ 6) 3 – (-2) = _____

7) -1 –9 = _____ 8) 2 – 9 = _____ 9) -8 – (-1) = _____

Multiplying Integers

1) (-4)(-12) = _____ 2) -8 x (-8) = _____ 3) (-8)(-10) = _____

4) 5 x 1 = _____ 5) (-10)(11) = _____ 6) (-3)(-8) = _____

7) -2 x 6 = _____ 8) 7(-12) = _____ 9) 4 x (-10) = _____

10) (-9)(-6)(2) = _____ 11) (-10)(-7)(-4) = _____

Dividing Integers

1) -48 ÷ 6 = _____ 2) -81 ÷ (-9) = _____ 3) -18 ÷ (-6) = _____

4) 25 ÷ (-5) = _____ 5) -10 ÷ 2 = _____ 6) -35 ÷ (-5) = _____

7) -42 ÷ 6 = _____ 8) -70 ÷ (-7) = _____ 9) -16 ÷ (-8) = _____

CBSE Worksheet-01

CLASS - VII Mathematics (Integers)

Choose correct option in questions 1 to 5.

1. A plane is flying at the height of 5000 m above the sea level. At a particular point, it is exactly above a submarine floating 1500 m below the sea level. What is the vertical distance between them?
   a. 6500 m b. 3500 m c. 3000 m d. 6000 m
2. $(-5) \times 6 =$ _____
   a. 30 b. -30 c. 11 d. -11
3. $(-6) \times (-4) \times (-2) =$ _____
   a. 48 b. 12 c. -48 d. -12
4. $10 \times [(6 + (-2)] =$ _____
   a. 80 b. -40 c. -80 d. 40
5. $21 \div (-3) =$_____
   a. -7 b. 7 c. 18 d. -18

Fill in the blanks:

6. On a number line when we subtract a _____ integer, we move to the right.
7. The _____ of any integer *(-a)* is *a*.
8. For any integer *a*, $a + 0 = a =$ _____.
9. For any three integers *a*, *b* and *c*, $(a \times b) \times c =$ _____.
10. Find:
    1. $80 \div (-5)$
    2. $64 \div (-16)$
11. A shopkeeper earns a profit of Re 1 by selling one pen and incurs a loss of 40 paise per pencil while selling pencils of her old stock. In a particular month she incurs a loss of Rs 5. In a month she earns neither profit nor loss. If she sold 70 pens, how many pencils did she sell?
12. Suppose we represent the distance above the ground by a positive integer and that below the ground by a negative integer. If an elevator descends at a rate of 5m/min and begins to descend from 15 m above the ground, what will be its position after 45 minutes?

Equivalent fractions (3 fractions)

Grade 6 Fraction Worksheet

Find the value of the missing numbers.

1. $\frac{2}{4} = \frac{\quad}{28} = \frac{\quad}{16}$

2. $\frac{4}{10} = \frac{20}{\quad} = \frac{\quad}{100}$

3. $\frac{3}{5} = \frac{24}{\quad} = \frac{18}{\quad}$

4. $\frac{15}{24} = \frac{75}{\quad} = \frac{\quad}{48}$

5. $\frac{17}{20} = \frac{170}{\quad} = \frac{\quad}{100}$

6. $\frac{1}{7} = \frac{\quad}{14} = \frac{\quad}{28}$

7. $\frac{7}{12} = \frac{70}{\quad} = \frac{42}{\quad}$

8. $\frac{3}{9} = \frac{15}{\quad} = \frac{24}{\quad}$

9. $\frac{1}{15} = \frac{3}{\quad} = \frac{4}{\quad}$

10. $\frac{2}{8} = \frac{\quad}{16} = \frac{12}{\quad}$

11. $\frac{18}{25} = \frac{108}{\quad} = \frac{\quad}{100}$

12. $\frac{5}{15} = \frac{\quad}{105} = \frac{25}{\quad}$

13. $\frac{4}{5} = \frac{32}{\quad} = \frac{24}{\quad}$

14. $\frac{4}{24} = \frac{12}{\quad} = \frac{\quad}{240}$

ANSWERS

Integer Operation

Adding Integers

(+85) + (-96) = (-11) (+80) + (+57) = (+137) (+86) + (-38) = (+48)

(+22) + (-41) = (-19) (-18) + (-45) = (-63) (-32) + (+48) = (+16)

(+6) + (-33) = (-27) (+6) + (-47) = (-41) (-78) + (+69) = (-9)

(-72) + (-30) + 10 = (-92) (-83) + (-36) + 20 = (-99)

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1 – 3 = (-2) (+2) - (-5) = (+7) (+9) - (-6) = (+15)

(-7) - (-1) = (-6) (-7) - (4) = (-11) (+3) - (-2) = (+5)

(-1) - (9) = (-10) (+9) - (-2) = (+11) (+8) - (-1) = (+9)

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1) (-4)(-12) = 48 2) -8 x (-8) = 64 3) (-8)(-10) = 80

4) 5 x 1 = 5 5) (-10)(11) = -110 6) (-3)(-8) = 24

7) -2 x 6 = -12 8) 7(-12) = -84 9) 4 x (-10) = -40

10) (-9)(-6)(2) = 108 11) (-10)(-7)(-4) = -280

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1) -48 ÷ 6 = -8 2) -81 ÷ (-9) = 9 3) -18 ÷ (-6) = 3

4) 25 ÷ (-5) = -5 5) -10 ÷ 2 = -5 6) -35 ÷ (-5) = 7

7) -42 ÷ 6 = -7 8) -70 ÷ (-7) = 10 9) -16 ÷ (-8) = 2

ANSWERS

CBSE Worksheet-01

CLASS - VII Mathematics (Integers)

Answer key

1. a
2. b
3. c
4. d
5. a
6. negative
7. additive inverse
8. $0 + a$
9. $a \times (b \times c)$
10. 1. -16
    2. -4
11. 175 pencils
12. The final position of the elevator = -225 + 15 = -210 m, i.e., 210 m below ground level.

Equivalent fractions

SOLUTIONS

Grade 6 Fraction Worksheet

Find the value of the missing numbers.

1. $\frac{2}{4} = \frac{14}{28} = \frac{8}{16}$

2. $\frac{4}{10} = \frac{20}{50} = \frac{40}{100}$

3. $\frac{3}{5} = \frac{24}{40} = \frac{18}{30}$

4. $\frac{15}{24} = \frac{75}{120} = \frac{30}{48}$

5. $\frac{17}{20} = \frac{170}{200} = \frac{85}{100}$

6. $\frac{1}{7} = \frac{2}{14} = \frac{4}{28}$

7. $\frac{7}{12} = \frac{70}{120} = \frac{42}{72}$

8. $\frac{3}{9} = \frac{15}{45} = \frac{24}{72}$

9. $\frac{1}{15} = \frac{3}{45} = \frac{4}{60}$

10. $\frac{2}{8} = \frac{4}{16} = \frac{12}{48}$

11. $\frac{18}{25} = \frac{108}{150} = \frac{72}{100}$

12. $\frac{5}{15} = \frac{35}{105} = \frac{25}{75}$

13. $\frac{4}{5} = \frac{32}{40} = \frac{24}{30}$

14. $\frac{4}{24} = \frac{12}{72} = \frac{40}{240}$