Final Term Worksheet 2013-2014

Class: VI

Mathematics

Ch. 6 : INTEGERS

I Fill in the blanks

1. The integer 5 more than (-2) is _____
2. The greatest negative integer is _____
3. All natural numbers are _____ integers
4. 25 – (-2) = _____
5. (-35) + (-15) = _____
6. 46 + (-98) = _____
7. The additive inverse of (-13) is _____
8. The integer which is neither positive nor negative is _____
9. 0 is larger than every _____ integer.
10. _____ + (-14) = -9

II Answer the following :

1. Represent as an integer with suitable sign.

   a. Saving Rs. 2500. b. Going 450 m below the sea level.

2. Add using number line.

   a. 5 more than (-3) b. (-2) + (-6)

3. Arrange in descending order .

   (-45), (-86), (-17), (-95)

4. Write six integers less than (-4).

5. Which number will be reach if we move 5 numbers to the left of (-6)?

6. Which is greater ? (-23) or (-45)

7. Find the sum of (-39) and (-63)

8. Subtract (-8) from 25.

9. If we are at 5 on the number line, in which direction should we move to reach (-9)?

10. Add :- (-460) + 125 + (-325) + 250

11. Subtract : a) (-40) - (25) b) 105 - (-76)

12. Find a) (-42) + 26 - (-15) b) (-25) - 14 - (-75)

Ch. 9 : DATA HANDLING

I Fill in the blanks

1. The graph represents data in the form of pictures is known as _____.

2. A graph drawn using bars of uniform width is called _____.

3. A collection of numbers gathered to give some information is called _____.

II The height (in cm) of 20 students of class VI are given below

125, 130, 135, 142, 125, 139, 150, 147,

142, 139, 125, 130, 125, 150, 147, 139,

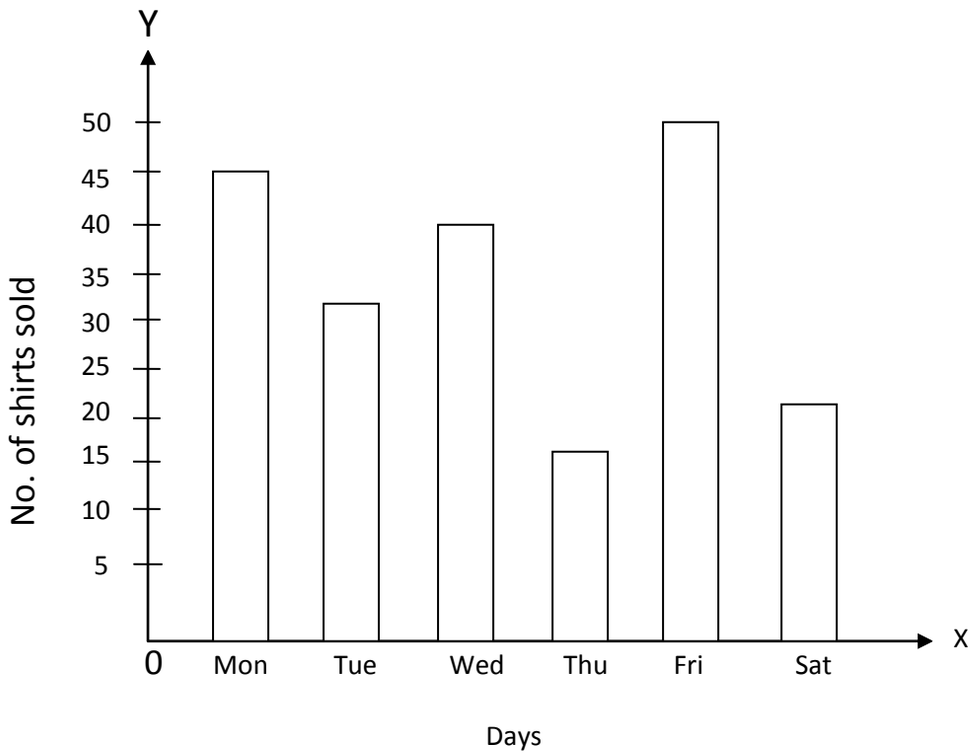
152, 130, 152, 142.

Prepare a table using tally marks.

Now, answer the following :

a. Find how many students are of the height 142 cm ?
b. How many students are there of height less than or equal to 135 cm?
c. How many students are of the height more than 147 cm?

III Observe the following bar graph and answer the following questions :



a. What information does the above bar graph give ?

b. How many shirts were sold on Friday?

c. On which day the minimum no. of shirts sold?

d. What is the scale chosen on the vertical line representing no. of shirts ?

e. How many more shirts sold on Wednesday than Tuesday ?

IV Following table shows the monthly expenditure of a family on various items. Draw a bar graph.

Items	Expenditure (in Rs.)
House Rent	900
Food	500
Education	700
Electricity	200
Transport	400
Clothes	800

V The following are the number of bulbs purchased for a house during the first months of a year. Represent the details by a pictograph using one symbol to represent 10 bulbs :

Months	January	February	March	April
No. of bulbs	30	35	20	26

Ch. 11 : Algebra

I Write the expression for the following :-

a. sum of 5 and x divided by 8

b. Product of 7 and y is added to twice ‘x’

c. (-6) is multiplied by ‘n’ and the result is added to 8.

d. ‘z’ is subtracted from (-12)

e. 5 more than (-x) gives 14.

II Fill in the blanks.

1. The solution of the equation $x + 6 = (-20)$
2. The variables in the expression $3x + y$ are _____
3. The expression for the perimeter of a regular pentagon whose side is 'p' cm is _____
4. Identify the equation in the following

   $2m < 30$, $7 - x = 5$, $(t-7) > 5$
5. Express the diameter (d) of a circle in terms of its radius (r).

III Complete the following table and find the solution of the equation

$3 + 4x = 23$

x	0	1	2	3	4	5
3 + 4x						

IV Pick out the solution and show that other values do not satisfy the question.

$4m + (-5) = 15$ (o, 7, 3, 5)

V Let Raju's age be 'x' years.

a. His father is 2 years more than 3 times his age. What is the fathers age?

b. His sister is 3 years younger than him what is her age?

VI Form expressions using x, 4 and 5. Every expression must have 'x' in it. Use only two number operations.

VII Identify the operations involved in the following expressions ;-

a) 2y + 17 b) $\frac{y}{8}$ - 6 c) -7m + 3

VIII Leela bought some toffees. She gives some toffees to her friends and family members. Still 9 toffees remain. If the no of toffees she gives away is 'q', how many toffees she bought?

IX Radha has some pencils with her she distributed the pencils equally to three of her children. Still 5 pencils were remaining. If the no. of pencils each child gets is taken as 'y', then how many pencils were there in total?

Ch. 12 : Ratio and proportion

1 Find the ratio of the following

a. 15 minutes to an hour
b. 50 gm to 1.5 kg
c. 40 cm to 2.5 m
d. 15 paise to five rupees
e. 45 seconds to 2 minutes
f. 10 metres to 25 cm
g. 250 gm to a kilogram

2 In a box containing 80 bulbs, 15 were found to be defective. Find the ratio of defective to good bulbs.

3 The ratio of the length and breadth of a football ground is 3 : 2. Find the length if the breadth is 28 metres.

4. Sumita gets pocket money of ₹ 500 per month. Out of which she saves ₹ 40 per month. Find the ratio of her savings to the amount she gets.

5. Sumit buys pencils at the rate of ₹ 36 per dozen and pens at the rate of ₹ 72 per dozen. Find the ratio of cost of a pencil to cost of a pen.

6. Divide ₹ 200 between Rita and Gita in the ratio 2 : 3

7. Determine if the following ratios from a proportion

a. 20 cm : 1 m and 3. 5 ℓ : 17. 5 ℓ

b. 2 kg : 80 kg and 25 g : 625 g

c. 200 mℓ : 2.5 ℓ and ₹ 4 : ₹ 50

d. 440 m : 2 km and 55 cm : 3m

8. A worker is paid ₹ 560 for 5 days. What should be paid to the worker for 28 days.

9. A family of 4 members consumes 6 kg of sugar in a month. What will be the monthly consumption of sugar if the number of family members becomes 6.

10. A car travels 165 km in 3 hrs.

    a. How long will it take to travel 440 km?
    b. How far will it travel in 7 hrs.

11. 15 boys can type 270 pages a day how many pages 36 boys can type a day.

12. The weight of 15 bags of rice is 112.5 kg

    a. What is the weight of 10 such bags
    b. How many bags will weigh 750 kg.

Ch. 14 : Practical Geometry

1. Draw any circle and mark points x, y and z such that ‘x’ is on the circle, y in the interior of the circle and ‘z’ is in the exterior of the circle.

2. Draw any line segment $\overline{AB}$, construct $\overline{PQ}$ without measuring $\overline{AB}$ such that the length of $\overline{PQ}$ is twice that of $\overline{AB}$.

3. Draw any line segment $\overline{XY}$. Mark any point M on it. Through M draw a perpendicular to $\overline{XY}$. (use ruler and compasses)

4. Draw a line segment of length 10 cm and construct its perpendicular bisector.

5. Draw a line segment of length 12 cm. using compasses divide it into four equal parts verify by actual measurement.

6. Draw an angle of measure 140^0 and construct its bisector.

7. Draw an angle measure 150^0 and divide it into four equal parts.

8. Construct with ruler and compasses, angles of following measures.

   a. 60^0, b. 30^0 c. 90^0 d. 120^0 e 45^0

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