

INTERNATIONAL INDIAN SCHOOL, RIYADH
WORK SHEET - SA2 (2016 - '17)
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-12 **Ratio and proportion**

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

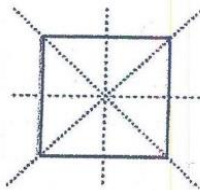
11. 15 boys can type 270 pages a day how many pages 36 boys can type a day.
12. The weight of 15 bags of rice is 112.5 kg
 - a. What is the weight of 10 such bags
 - b. How many bags will weigh 750 kg.

ch-14 Practical Geometry

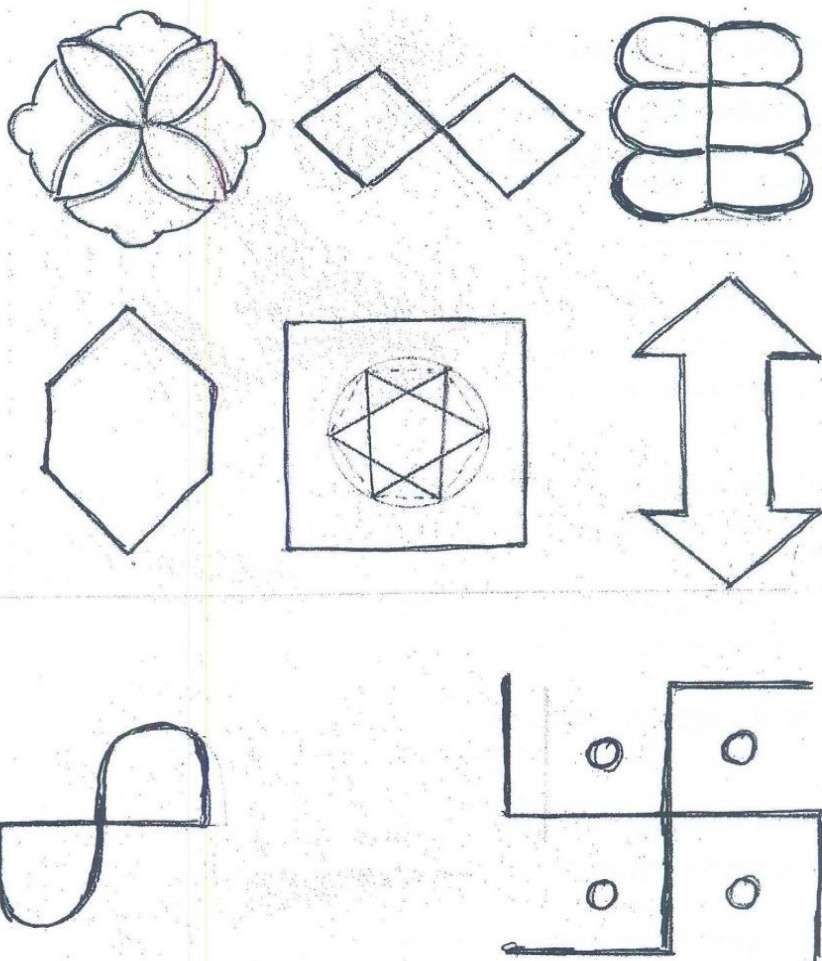
1. Draw any circle and mark points x, y and z such that 'x' is on the circle, y in the interior of the circle and 'z' is in the exterior of the circle.
2. Draw any line segment \overline{AB} , construct \overline{PQ} without measuring \overline{AB} such that the length of \overline{PQ} is twice that 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° and construct its bisector.
7. Draw an angle measure 150° and divide it into four equal parts.
8. Construct with ruler and compasses, angles of following measures.
 - a. 60° , b. 30° c. 90° d. 120° e. 45°

ch-13

Symmetry Asymmetry



- 1) Can you draw a triangle which has
 - a) exactly one line of symmetry
 - b) exactly two lines of symmetry ?
 - c) exactly three lines of symmetry ?
 - d) no lines of symmetry ?
- 2) Find the number of lines of symmetry in each of the following shapes ?



3) Consider the letters of English alphabets, A to Z.

List among them the letters which have

- a) Vertical lines of symmetry
- b) Horizontal lines of symmetry
- c) No lines of symmetry

4) Complete the following table :

S1#	Shape	Rough Figure	Number of lines of symmetry
1.	Equilateral triangle		
2.	Square		
3.	Rectangle		
4.	Isosceles Triangle		
5.	Rhombus		
6.	Circles		
7.	Parallelogram		
8.	Scalene Triangle		

5) Write some application of symmetry in everyday life.

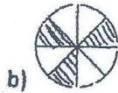
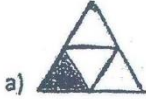
INTERNATIONAL INDIAN SCHOOL , RIYADH

MATHS WORKSHEET (2016-17)

CLASS :- 6

CHAPTER 7- FRACTIONS

1) Write the fraction for the shaded portion :-



2) Draw number line and locate the following fractions :-

a) $\frac{2}{3}, \frac{4}{3}, \frac{1}{3}, \frac{6}{3}$

b) $\frac{4}{9}, \frac{7}{9}, \frac{10}{9}, \frac{5}{9}$

3) Express the following as mixed fraction :-

a) $\frac{39}{7}$

b) $\frac{112}{5}$

c) $\frac{56}{3}$

d) $\frac{91}{6}$

e) $\frac{34}{8}$

4) Express the following as improper fractions :-

a) $3\frac{4}{5}$

b) $5\frac{7}{9}$

c) $11\frac{4}{9}$

d) $5\frac{6}{7}$

5) Write first five equivalent fractions for each.:-

a) $\frac{3}{8}$

b) $\frac{10}{15}$

c) $\frac{7}{9}$

6) Write each fraction in simplest form :-

a) $\frac{56}{78}$

b) $\frac{115}{175}$

c) $\frac{33}{78}$

d) $\frac{12}{20}$

e) $\frac{45}{55}$

f) $\frac{90}{100}$

7) Fill in the boxes:-

a) $\frac{\square}{15} = \frac{3}{5}$

b) $\frac{45}{55} = \frac{9}{\square}$

c) $\frac{12}{9} = \frac{\square}{36}$

d) $\frac{36}{\square} = \frac{4}{3}$

e) $\frac{\square}{100} = \frac{9}{10}$

8) Find the equivalent fraction of $\frac{4}{7}$ with

a) Numerator 28

b) Denominator 63

9) Arrange the fractions in ascending and descending order :

a) $\frac{13}{5}, \frac{7}{5}, \frac{1}{5}, \frac{8}{5}, \frac{2}{5}, \frac{11}{5}$

b) $\frac{13}{15}, \frac{13}{7}, \frac{13}{50}, \frac{13}{11}, \frac{13}{2}, \frac{13}{9}$

10) Compare the fractions and put appropriate signs :-

a) $\frac{14}{21} \square \frac{4}{21}$

b) $\frac{21}{31} \square \frac{21}{30}$

c) $\frac{4}{7} \square \frac{6}{11}$

d) $\frac{7}{9} \square \frac{4}{5}$

e) $\frac{16}{24} \square \frac{12}{18}$

f) $\frac{2}{12} \square \frac{3}{15}$

11) Solve :-

a) $\frac{7}{25} + \frac{11}{25}$ b) $\frac{28}{43} - \frac{19}{43}$ c) $\frac{12}{15} + \frac{11}{3}$ d) $\frac{27}{45} + \frac{8}{9}$

e) $\frac{3}{5} + \frac{2}{30} + \frac{4}{15}$ f) $\frac{7}{8} + \frac{3}{4} + \frac{5}{32}$ g) $1 - \frac{7}{9}$ h) $5 + \frac{12}{15}$

i) $2\frac{3}{4} + 3\frac{4}{5}$ j) $4\frac{5}{16} - 2\frac{1}{4}$ k) $1\frac{3}{4} + 2\frac{2}{5} + 3\frac{1}{2}$

12) Greg and Peter bought a large pizza to share . Greg ate $\frac{5}{8}$ of the pizza.

What fraction of the pizza was left for Peter?

13) Monica and Ryan shared 18 cookies .Monica ate $\frac{1}{6}$ of the cookies.

OMIT

Ryan ate $\frac{1}{3}$ of the cookies.How many cookies were left?

14) Leanne bought a bag of marbles . $\frac{3}{8}$ of the marbles were green.

$\frac{1}{5}$ of the marbles were red . How many marbles were in the bag altogether?

15) Dakota filled a measuring cup with $3\frac{7}{8}$ of a cup of vegetable oil. Then she poured $\frac{1}{2}$

of the oil into a frying pan. How much oil is left in the measuring cup?

16) Maggie found an orange caterpillar and a green caterpillar in her backyard. The

green caterpillar was $\frac{3}{4}$ of a inch long and the orange caterpillar was $\frac{5}{8}$ of a inch long.

Which colour caterpillar is longer and how much longer than the another?

17) Warren's Desserts made a batch of fresh scones with $\frac{9}{10}$ of a pound of butter and

$\frac{2}{5}$ of a pound of sugar. How much more butter than sugar was used?

18) At the beach, Kayla and her sister both built sandcastles and then measured

their heights. Kayla's sandcastle was $\frac{3}{4}$ of a foot tall and her sister's was $\frac{5}{12}$

of a foot tall. Who's sandcastle is taller and by how much?

INTERNATIONAL INDIAN SCHOOL , RIYADH

MATHEMATICS WORKSHEET (2016-2017)

CHAPTER 8 DECIMALS

CLASS VI

Multiple choice questions

1. The decimal form of $5/125$ is
(a) 1.25 (b) 0.05 (c) 0.004 (d) 0.04
2. The fractional form of 2.35 is
(a) $7/40$ (b) $47/20$ (c) $50/20$ (d) $23/20$
3. The number of digits in the decimal part of 9.4005 is
(a) 2 (b) 3 (c) 4 (d) 5
4. Every decimal number can be expressed as a/an
(a) Natural number (b) Integer (c) Fraction (d) None of these
5. 5 paise = _____ Rs
(a) 0.5 (b) 0.05 (c) 0.50 (d) 0.005
6. Write the following in the place value table
(a) Rupees fifty five and fifty paise
(b) Five meter and sixty five centimeter
(c) Twelve centimeter and six millimeter
(d) Five kilograms and eight gram
7. Write the following as decimals
(a) Two tens and seven tenths
(b) One ten, two ones and three hundreds
(c) Five hundreds, three tens, nine ones, eight tenths and five hundredths
8. Write each of the following as decimals
(a) $7/10$ (b) $65 + 8/10 + 5/100$ (c) $700 + 5 + 3/10 + 8/1000$
(d) $3 \frac{4}{5}$ (e) $6 \frac{1}{2}$
9. Write the following decimals as fractions and reduce the fractions to lowest form
(a) 3.50 (b) 1.125 (c) 3.05 (d) 2.375

10. Express the following in centimeters using decimals

- (a) 4 cm 2mm (b) 242mm (c) 33mm (d) 5mm

11. Express as rupees using decimals

- (a) 5 Rs 5 paise (b) 35 paise
(b) (c) 50Rs 90 paise (d) 21Rs 75 paise

12. Represent the following on number line

- (a) 0.4 (b) 1.5 (c) 2.8 (d) 1.7

13. Compare

- (a) 1.461 1.231 (b) 0.8 0.08
(b) 0.09 0.1 (d) 5.64 5.603

14. Find the sum

- (a) $0.87 + 0.5$ (b) $67.35 + 22.65$ (c) $10 + 0.637 + 0.363$
(d) $25.076 + 0.55 + 0.004$

15. Subtract

- (a) 22.35 from 36.75 (b) 205.35 from 245.5 (c) 3.250 from 10.750
(d) 3.515 from 8.5

16. Word problems

(a) Naresh walked 2km 165 m in the morning and 2km 5m in the evening. How much distance did he walk in all?

(b) Sonu purchased 4.5 Kg of potatoes and 3.350 Kg of tomatoes. What is the total weight?

(c) Anusha bought 2litrs 350ml of milk and added 475ml of syrup in it. What is the total volume?

(d) Rohan has Rs 355.50 in his pocket. He purchased a shirt for Rs 235.50 and a pair of socks for Rs 22.65. How much money is left with him?

(e) Kiran bought a book for RS 65.65. he gave Rs 100 to the shopkeeper. How much money the shopkeeper return to Kiran ?

INTERNATIONAL INDIAN SCHOOL RIYADH
MATHEMATICS WORKSHEET CLASS - VI 2016 - 17
ch-11 ALGEBRA

- 1) Choose the correct answer.
- a) If 'a' is the side of the square then perimeter = _____
(a^2 , $4a$, ab , $2a$)
- b) $a \times (\text{_____}) = a \times b + a \times c$
($b \times c$, $b \div c$, $b - c$, $b + c$)
- c) Given that $x = 3$, then the value of $2x + 5$ equals
(8 , 11 , 7 , 1)
- d) The perimeter of a regular hexagon of side 'l' = _____
($4l$, $6l$, l^2 , $8l$)
- e) If 523 is multiplied by x and 139 is added to the product then the algebraic expression is _____.
($523(x + 139)$, $523x + 139$, $(523 + 139)x$, $523 + 139x$)
- f) 8 added to the product of 12 and y is written as
($8y + 12$, $12 + 8y$, $12y + 8$, $8 + 12 + y$)
- 2) State which of the following are equations. Give reasons.
- a) $2 \times 5 - 3 = 7$
- b) $2x + 6 = 12$
- c) $y/2 + 1 = 5$
- d) $4x = 12$
- e) $8/2 = 4$
- f) $15 < m - 8$
- g) $3y = 15 + 3$
- h) $5z / 10 > 0$
- 3) State true or false.
- a) Area of a rectangle = $l \times b$.
- b) $x = 4$ is a solution for $3x = 12$.
- c) x , y , 23 are all variables.
- d) $a = 3$ is a solution for $a + 6 = 9$
- 4) Give expressions for the following.
- a) 10 is added to x.
- b) r is multiplied by . Then, 7 is added to the product.
- c) p is multiplied by $2/3$.

- d) y is divided by 3 and then added to $\frac{2}{3}$
- e) Twice of n added to 6
- f) $-k$ multiplied to 3 and then added to 20
- g) 1 sixth of m subtracted from x
- 5) Answer the following.
- Ritu is 5 years older than Sudha. Find an expression for Ritu's age in terms of Sudha's age.
 - 5 students are sitting in a bench. Find the number of students sitting in n benches.
 - The price of a puzzle book is 3 times the price of an English book. What is the price of the English book if the price of puzzle book is Rs. 27?
 - Sunanda wants to distribute 4 sweets to each of her class mates. She runs short of 8 sweets. Find the number of sweets with her if there are x students in her class.
 - Puneet, Akhil and Vinod write a math test. Puneet gets y marks. Akhil gets 5 marks less than Puneet, and Vinod gets 7 marks more than Puneet. Express Akhil's marks and Vinod's marks in terms of Puneet.
- 6) Find the solution for the following.
- $x + 3 = 10$
 - $y - 6 = 15$
 - $m/9 = 4$
 - $8n = 48$
 - $2a + 5 = 11$
 - $17 - a = 14$
 - $p/5 = 9$
 - $12k = 72$
- 7) Check out the solution from the values given in the bracket. Show that other values do not satisfy the equation.
- $X + 8 = 10$ {0, 1, 2, 3}
 - $16 - y = 5$ {8, 1, 6, 11}
 - $3m = 21$ {3, 7, 6, 10}
 - $r/5 = 4$ {10, 20, 5, 15}

1. The length and breadth of a Rectangle are 11 cm and 9 cm.
Find its area and Perimeter ?
2. The area of a Rectangle is 144 sq cm and its length is 16 cm. Find the breadth of the Rectangle?
3. Find the perimeter of a regular hexagon of side x cm.
4. If the perimeter of a regular pentagon is 65 cm. Find its side ?
5. The perimeter of a triangle is 42 cm. If two of its sides are 16 cm and 12 cm. Find its third side?
6. A piece of string is 45 cm long. It is bent to form an equilateral triangle. Find the side of triangle.
7. An athlete takes 5 rounds of a rectangular park 120 m long and 80m wide. Find the total distance covered by him.
8. Find the area of a square whose perimeter is 260 cm.
9. The total cost of fencing a square park at Rs. 20 per metre is Rs. 2880. Find the side of the square park.
10. The floor of a room with dimensions 5 m and 3m is to be covered with square tiles. If each square tile is of side 25 cm. Find the number of tiles required.

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,

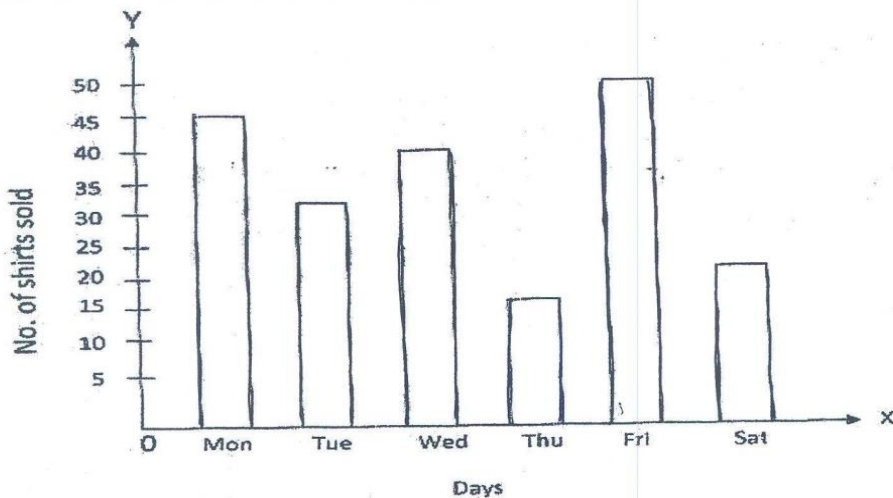
152, 130, 152, 142.

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