

# **Brilliant Public School , Sitamarhi**



## **Class -V**

# **Maths Worksheets**

**Session : 2012-13**

**Rajopatti,Dumra Road,Sitamarhi(Bihar),Pin-843301  
Ph.06226-252314,Mobile:9431636758**

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

Fill in the blanks :

1. A number is divisible by 10, if its one's place is \_\_\_\_\_
2. A number is divisible by \_\_\_\_\_, if its one's place is 0 or 5.
3. A number is divisible by \_\_\_\_\_, if its one's place is 0,2,4, 6 or 8.
4. \_\_\_\_\_ is neither prime not composite.
5. \_\_\_\_\_ is the smallest prime no.
6. \_\_\_\_\_ is the only even prime no.
7. A number is divisible by 9, if the sum of the digits is divisible by \_\_\_\_\_.
8. Prime numbers have only \_\_\_\_\_ factors.
9. A number is divisible by 3 if the \_\_\_\_\_ is divisible by 3.
10. Co primes are numbers which have only \_\_\_\_\_ as their common factors.
11. LCM of 9 and 10 is \_\_\_\_\_
12. HCF of 17 and 19 is \_\_\_\_\_
13. LCM of 6 and 18 is \_\_\_\_\_
14. HCF of 9 and 45 is \_\_\_\_\_
15. A number is divisible by \_\_\_\_\_, if it is divisible by both 2 and 3.

Answer the following:

1. Without actual division , check whether the following are divisible by 2  
(a) 7422                      (b)39582                      (c)14659                      (d)52314
2. Check whether the following are divisible by 3  
(a) 741352                      (b)2034198                      (c)317925                      (d)3412920
3. Check whether the following are divisible by 4  
(a) 4137156                      (b)135764                      (c)34560                      (d)167435
4. Check whether the following are divisible by 5  
(a) 187620                      (b)258732                      (c)361245                      (d)705204
5. Check whether the following are divisible by 6  
(a) 4234156                      (b)1027863                      (c)924658                      (d)1850421
6. Check whether the following are divisible by 8  
(a) 1967000                      (b)2587382                      (c)3614944                      (d)191640
7. Check whether the following are divisible by 9  
(a) 739602                      (b)2034198                      (c)674132                      (d)7413552
8. Check whether the following are divisible by 10  
(a) 395725                      (b)6042190                      (c)814231                      (d)42950

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

9. Check whether the following are divisible by 11

- (a) 666666      (b)1251206    (c)7917624      (d)6510625

10. Find LCM

- |              |               |
|--------------|---------------|
| (a) 36,20    | (b)36, 48, 64 |
| (c)24, 36    | (d)39, 65, 78 |
| (e) 60,72,96 | (f)48,60      |
| (g)12,15,45  | (h)42,36      |
| (i) 14,21    | (j)25,65      |
| (k)48,60     | (l)35,40      |
| (m) 50,60    | (n)36, 49     |
| (o)26,13,91  | (p)60,84,96   |

11. Find the HCF

- |             |             |
|-------------|-------------|
| (a) 16,24   | (b)28,36    |
| (c)40,24    | (d)52,68    |
| (e) 36,18   | (f)42,72,18 |
| (g)16,32,40 | (h)42,72,18 |
| (i) 6,10,28 | (j)66,44    |
| (k)38,60    | (l)45,18,36 |
| (m) 26,43   |             |

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

Fill in the blanks :

1. Number name for 63, 76, 01 , 020 is \_\_\_\_\_.
2. All even numbers are divisible by \_\_\_\_\_.
3.  $3\frac{1}{5} \times 1 =$  \_\_\_\_\_.
4. Place value of 3 in 2.314 is \_\_\_\_\_.
5. Successor of 32, 14, 53, 040 is \_\_\_\_\_.
6. A number is divisible by \_\_\_\_\_, if it is divisible by both 2 and 3.
7. Mixed numeral for  $\frac{83}{10}$  is \_\_\_\_\_.
8. Whole part in 15.162 is \_\_\_\_\_.
9. Numeral for 7,00,00,000 + 80,00,000 + 9,000 +14 is \_\_\_\_\_.
10. Numbers which have more than two factors are called \_\_\_\_\_.
11.  $1\frac{3}{7} - 1\frac{3}{7} =$  \_\_\_\_\_.
12. Fraction for 0.176 is \_\_\_\_\_.
13. Place value of 6 in 7, 63, 52, 154 is \_\_\_\_\_.
14.  $8\frac{1}{9} \div 8\frac{1}{9} =$  \_\_\_\_\_.
15. A number is divisible by 3, if the sum of the digits is divisible by \_\_\_\_\_.
16. Mixed numeral for 3.125 is \_\_\_\_\_.
17. Predecessor of 412, 613, 030 is \_\_\_\_\_.
18. A number is divisible by 10, if its one's place is \_\_\_\_\_.
19.  $4\frac{1}{5} + \frac{3}{7} = \frac{3}{7} +$  \_\_\_\_\_.
20. Decimal for  $\frac{4}{100}$  is \_\_\_\_\_.
21. Numeral for 30,000,000 + 500, 000 + 1000 + 70 is \_\_\_\_\_
22.  $8\frac{1}{3} \times 0 =$  \_\_\_\_\_.
23. A number is divisible by 5 if its one's place is \_\_\_\_\_.
24. A number after 41,216,199 is \_\_\_\_\_.
25. When a fraction is divisible by 1, the quotient is \_\_\_\_\_.
26. Decimal part in 35. 613 is \_\_\_\_\_.
27. 4836421097 is written as \_\_\_\_\_ in International system.
28. Multiplicative inverse of 17 is \_\_\_\_\_.
29. A number is divisible by 9 if the \_\_\_\_\_ is divisible by 9.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

30.  $0 \div 4\frac{1}{2} =$  \_\_\_\_\_ .
31. Place value of 5 in 83, 512, 216 is \_\_\_\_\_
32. Decimal for  $1\frac{3}{1000}$  is \_\_\_\_\_
33. Prime numbers have only \_\_\_\_\_ factors.
34. Number name for 72,050,112 is \_\_\_\_\_.
35.  $8\frac{11}{13} + 0 =$  \_\_\_\_\_.
36. Fraction for 3.5 is \_\_\_\_\_
37. Numeral for six hundred thirty five million, four thousand sixty five is \_\_\_\_\_.
38. Fraction  $\div$  Another fraction = Fraction  $\times$  \_\_\_\_\_ of the other fraction.
39. \_\_\_\_\_ is the only even prime number.
40. Decimal numbers having equal number of decimal places are called \_\_\_\_\_.
41. \_\_\_\_\_  $\times 4\frac{1}{6} = 1$
42. 14593267 is written as \_\_\_\_\_ is Indian System.
43.  $\frac{4}{9} \times 2\frac{1}{3} = 2\frac{1}{3} \times$  \_\_\_\_\_
44. \_\_\_\_\_ is the smallest prime number.
45. The number whose multiplicative inverse is the number itself is \_\_\_\_\_
46. Fraction for  $4 \div 5$  is \_\_\_\_\_
47. A number before 93, 76, 145 is \_\_\_\_\_
48. \_\_\_\_\_ is neither prime nor composite.
49. Reciprocal of  $3\frac{1}{17}$  is \_\_\_\_\_.
50. Standard form of  $\frac{18}{24}$  is \_\_\_\_\_.
51. A number is divisible by \_\_\_\_\_ if its ones place is 0 or 2 or 4 or 6 or 8.
52.  $8\frac{1}{3}$  is a \_\_\_\_\_ fraction.
53. Is 834652 divisible by 5. Write Yes or No.
54. Improper fraction for  $8\frac{1}{5}$  is \_\_\_\_\_.
55. Reciprocal of  $\frac{3}{7}$  is \_\_\_\_\_.
56. Decimal numbers having equal values are called \_\_\_\_\_.
57.  $3.15 - 0.5 =$  \_\_\_\_\_.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

58. 143560 is divisible by 10. Write Yes or No.
59.  $2.85 + 1.5 =$  \_\_\_\_\_
60. Multiplicative inverse of \_\_\_\_\_ does not exist.
61. When a fraction is divisible itself, the quotient is \_\_\_\_\_.
62. 638412 is divisible by 4 or not. Write Yes or No.
63.  $\frac{1}{5}$  is a proper fraction and also \_\_\_\_\_ fraction.
64. We cannot divide a fraction by \_\_\_\_\_.
65.  $\frac{3}{5} \times$  \_\_\_\_\_ = 1 .
66. Add 1 to a number to get its \_\_\_\_\_.
67. All the prime numbers are odd except \_\_\_\_\_.
68.  $3.25 + 0 =$  \_\_\_\_\_
69. Ten Millions = \_\_\_\_\_ crore.
70.  $14.125 - 14.1250 =$  \_\_\_\_\_
71. Decimal numbers having unequal number of decimal places are called \_\_\_\_\_
72. \_\_\_\_\_ 1 from a number to get its predecessor.
73.  $\frac{2}{7}, \frac{4}{7}, \frac{8}{7}, \frac{1}{7}$  are \_\_\_\_\_ fractions.
74.  $5 + 0.5 =$  \_\_\_\_\_
75. 10 lakhs = \_\_\_\_\_ million.
76. Are odd numbers divisible by 2 ? Write Yes or No.
77. All even numbers are composite numbers except \_\_\_\_\_.
78.  $\frac{3}{5} = \frac{\quad}{20}$
79. One hundred thousands = \_\_\_\_\_ lakh.
80. To add or subtract fractions we must find \_\_\_\_\_ of the denominators.

Answer the following :

1. Write the three equivalent fractions of each.

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

b)  $\frac{5}{6}$

c)  $\frac{8}{13}$

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

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

2. Put >, < or = in each

a) **354, 276, 415**  354, 267, 415

b)  $3\frac{1}{4}$    $3\frac{1}{2}$

c) 9.63   $\frac{63}{1000}$

d) 19,28, 76,105  82,76,105

e)  $\frac{7}{12}$    $\frac{3}{4}$

f) 2.05  2.50

g) 8.56  8.560

h) 400, 218, 768  0,128, 768

i)  $1\frac{2}{5}$    $\frac{3}{2}$

j) 3.05   $\frac{1}{2}$

k) 21,00,76,325  , 76, 00, 325

l) 18.58  .858

m) 76, 35, 14, 763  35,14,763

3. Check whether the following are divisible by 4.

a) 8137264    b) 246712    c) 131242    d) 83625

4. Find the difference and express in its lowest form

a)  $3\frac{1}{5} - 2\frac{1}{7}$

b)  $5\frac{1}{6} - 4\frac{1}{8}$

c)  $\frac{5}{6} - \frac{5}{18}$

5. Skip counting as per instructions and write next four numerals.

a) 41, 25, 683 (in thousands)

b) 934, 162, 400 (in ten million)

c) 3, 75, 23, 100 (in ten lakhs)

d) 28, 165, 005 (in millions)

6. Without actual division check whether the following are divisible by 9.

a) 8613252

b) 1732972

c) 4163454

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

7. Subtract :

a) 456832 from 916327

b) 134612768 from 728937789

c) 6325610 from 9352160

8. Write in descending order :

a) 813 642 912;    83 642 912;                    831 642 912;                    831 642 921

b) 14 73 472 ;                    9 41 73 472;    91 73 472;                    93 71 472

9. Check whether the following are divisibility

a) 8888888

b) 1433728

c) 9163425

10. Add the following :

a) 9345639 + 8231645

b) 45.63 + 215.9

c) 9163863 + 75616934 + 1684912

d) 5.683kg + 25.65kg + 235.5 kg

e) 16325 + 70569 + 385.6 + 413.9632

11. Simplify :

a)  $2\frac{1}{5} \times \frac{15}{33}$

b)  $8\frac{1}{2} \times \frac{12}{51}$

c)  $8\frac{1}{3} \times \frac{20}{33}$

d)  $9\frac{1}{6} \times \frac{9}{55}$

e)  $\frac{4}{15} \div \frac{2}{5}$

f)  $3\frac{1}{5} \div \frac{32}{75}$

g)  $3\frac{1}{5} \times \frac{15}{33} \times \frac{11}{48}$

h)  $2\frac{1}{7} \times \frac{8}{27} \times \frac{45}{64}$

12. Check whether the following are divisible by 6

a) 413262

b) 613242

c) 415639

d) 816246

13. Multiply :

a) 8345 × 189

b) 9163 × 208

c) 8356 × 412

d) 6346 × 588

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

14. Find the sum and express in lowest term.

a)  $3\frac{1}{5} + 2\frac{1}{3}$

b)  $\frac{8}{15} + 4\frac{1}{6}$

c)  $2\frac{1}{7} + \frac{5}{21}$

15. Write in ascending order :

a) 32 46 732;      32 64 732;      23 64 732;      1 46 732

b) 863 146 902;      863 156 902;      63 146 902;      683 146 902

16. Divide :

a)  $976\,925 \div 415$

b)  $724\,360 \div 114$

c)  $4\frac{1}{2} \div \frac{12}{40}$

d)  $\frac{9}{25} \div \frac{36}{55}$

e)  $462398 \div 122$

17. Check whether the following are divisible by 8

a) 936 418      b) 833464      c) 932672

18. Fill in the boxes :

a)  $\frac{4}{5} = \frac{8}{\square}$

b)  $\frac{\square}{8} = \frac{10}{40}$

c)  $\frac{3}{\square} = \frac{15}{40}$

d)  $\frac{5}{9} = \frac{\square}{72}$

19. Check whether the following are divisible by 3.

a) 31245      b) 91286      c) 253461

20. Find :

a)  $\frac{3}{5}$  of 20

b) 9 of  $\frac{8}{45}$

c)  $1\frac{2}{9}$  of 63

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

Do as directed :

1. In a box 515 pencils are packed . Find how many pencils are packed in 1256 boxes.
2. In a box 435 pencils are packed. Find how many boxes are required for 53505 pencils.
3. In a carton of pens 53275 are red ink pens, 839612 are blue ink pens and 714286 are black ink pens. Find how many pens are there in the carton.
4. A plane carries 245 passengers. Find how many passengers are there in 532 such planes.
5. Population of Riyadh is 43568278 and that of Jeddah is 45638297. What is the population of these two cities.
6. Population of Dammam in 2000 was 83469325 and in 2009 it increased to 85472769. Find the increase in population.
7. Number of Indians in Saudi Arabia are 1936432 and no. of Pakistanis are 1847256 . Find which expatriates are less and by how much?
8. 70090 pencils are packed in 215 boxes. Find how many pencils are packed in a box.
9. 27608 passengers are travelling in 58 aero planes. Find how many passengers are travelling in each plane.
10. Divide largest 6 digit number by largest 2 digit number.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

I Fill in the blanks :

1.  $0.6 \times 10 =$  \_\_\_\_\_
2.  $4.5 \div 10 =$  \_\_\_\_\_
3.  $1.74 \times 100 =$  \_\_\_\_\_
4.  $42.5 \times 10 =$  \_\_\_\_\_
5.  $0.345 \div 1000 =$  \_\_\_\_\_
6. When we multiply a decimal fraction by 100, shift the decimal point to the right by \_\_\_\_\_ places.
7.  $9.25 \times$  \_\_\_\_\_  $= 92.5$
8.  $0.7 \div 10 =$  \_\_\_\_\_
9.  $25.7 \div 100 =$  \_\_\_\_\_
10. To divide a decimal by 10, shift the decimal to the left by \_\_\_\_\_ place.
11. The product of a decimal fraction and 0 is equal to \_\_\_\_\_.
12.  $26.5 \times$  \_\_\_\_\_  $= 26.5$
13.  $0.4 \times 8 = 8 \times$  \_\_\_\_\_
14.  $72.4 \times 0 =$  \_\_\_\_\_.
15.  $362.47 \times 1 = 1 \times$  \_\_\_\_\_.
16. The product of a decimal fraction and \_\_\_\_\_ is equal to the decimal fraction.
17. If a decimal fraction and a whole number multiplied in any order, the \_\_\_\_\_ remains the same.
18. The formula for average = \_\_\_\_\_
19. The average of 2, 8, 5 is = \_\_\_\_\_
20. The \_\_\_\_\_ is a measure for characterizing a group of numbers with one another.
21. When we express a quantity as a part of 100, we use the word \_\_\_\_\_
22. 'Cent' means \_\_\_\_\_.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

23.  $\frac{75}{100} = \underline{\hspace{2cm}}$  %.

24. Write an equivalent fraction with denominator 100 for the fraction  $\frac{1}{2}$ .

25. In a decimal fraction if we shift the decimal point two places to the right, we get the \_\_\_\_\_.

26.  $0.87 = \underline{\hspace{2cm}}$  %.

27.  $0.082 = \underline{\hspace{2cm}}$  %.

28. 6% is same as \_\_\_\_\_.

29.  $25\% = \frac{\hspace{1cm}}{100}$

30. 175% can be written in decimal form as \_\_\_\_\_.

31. Fraction for 25% is \_\_\_\_\_.

32. 10% of 100 is \_\_\_\_\_.

33. 50% of 400 is \_\_\_\_\_.

34. 100% of Rs. 95 is \_\_\_\_\_.

35. 30% of 30 kg is \_\_\_\_\_.

II Do the following :

a. Convert  $\frac{15}{25}$  into percentage.

b. Express  $12\frac{1}{2}\%$  as a fraction.

c. Express  $24\frac{1}{2}\%$  as a decimal.

d. Convert  $\frac{5}{25}$  as a decimal.

e. Find 45% of 300.

f. Which of the two is more ?

a. 15% of 200 or 65% of 100

b. 20% of 450 or 30% of 360

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

III Find the product :

- a.  $4.9 \times 25$
- b.  $74.58 \times 129$
- c.  $2.354 \times 420$
- d.  $0.756 \times 9$
- e.  $145.602 \times 35$
- f.  $1.74 \times 5000$

IV Divide and find the quotient :

- a.  $5.824 \div 125$
- b.  $379.5 \div 15$
- c.  $0.5625 \div 125$
- d.  $48.84 \div 37$
- e.  $744.2 \div 500$
- f.  $0.06 \div 6$
- g.  $43.18 \div 40$
- h.  $634.2 \div 3000$

V Find the average of the following set of numbers :

- a. 45, 48, 68, 63
- b. 98, 90, 85, 88, 89
- c. 75, 53, 79, 2, 101
- d. 135, 245
- e. Rs. 40.50, Rs. 32, Rs. 18.25
- f. 92 km, 80 km, 77 km, 89 km
- g. 90 l, 82 l, 95 l, 79 l

VI Convert these fractions into percentages.

- a.  $\frac{2}{5}$
- b.  $\frac{25}{10}$
- c.  $\frac{8}{4}$
- d.  $\frac{11}{20}$

VII Express these percentage as fractions :

- a. 25%
- b.  $33\frac{1}{3}\%$
- c. 120%
- d.  $66\frac{2}{3}\%$

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

VIII Express these percentage as decimals :

- a. 5%      b. 28%      c.  $5\frac{1}{2}$  %      d. 350 %

IX Express these decimals as percents :

- a. 0.4      b. 2.45      c. 1.256      d. 13.5

X Express these fractions as decimals :

- a.  $\frac{5}{4}$       b.  $\frac{25}{2}$       c.  $\frac{55}{50}$       d.  $\frac{4}{25}$

XI Do the following :

1. There are 90 students in a class in section. If 40% of them are girls, find the number of boys.
2. Ravi got we out of 25 in a test. What percent of marks did he get ?
3. 75% of the total students were present in the class. If the total no. of students is 40, how many students were absent on that day ?
4. Shyam got 75 out of 80 marks in Maths and 60 out of 75 marks in English. Find the percentage of marks he got in two subject, which marks is better ?
5. Out of 50 apples 15 were damaged what percentage was good apples ?
6. In a test which had 20 questions carry equal marks. Amit scored 80% marks.

How many questions did he answer correctly ?

XII Find the value of each of the following :

- a. 70% of 3000      b. 25% of 600  
c. 84% of 600 marks      d. 7.5% of 200 ml  
e. 40% of 750 kg      f.  $7\frac{1}{4}$  % of 600

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

### Object Type :

1. The amount of space occupied by a solid is given by its \_\_\_\_\_.
2. The distance covered per unit time is called \_\_\_\_\_.
3. A ray has \_\_\_\_\_ point.
4. Radius is half of the \_\_\_\_\_.
5. The measure of a region enclosed by a closed figure is called \_\_\_\_\_.
6. The formula used to find a perimeter of a rectangle is \_\_\_\_\_.
7. If the radius of a circle is 9cm, the diameter is \_\_\_\_\_.
8. The measure of a straight angle is \_\_\_\_\_.
9. A triangle has \_\_\_\_\_ angles.
10. The line segment joining any two points on the circle is called \_\_\_\_\_.
11. Area of a rectangle = \_\_\_\_\_
12. An obtuse angle is always \_\_\_\_\_ than  $90^{\circ}$ .
13. If a chord of a circle passes through its centre, it is called \_\_\_\_\_.
14. Volume = length x breadth x \_\_\_\_\_
15. The length of all radius of circle is \_\_\_\_\_.
16. Half a circle is called \_\_\_\_\_.
17. The distance around a figure is called \_\_\_\_\_.
18. HCF of 6 and 42 is \_\_\_\_\_.
19. A \_\_\_\_\_ is a special kind of rectangle where length and breadth are equal.
20. A \_\_\_\_\_ has no end point.
21. When two rays have a common end point they form an \_\_\_\_\_.
22. A straight angle is equal to \_\_\_\_\_ right angles.
23. The sum of the measures of 3 angles of a triangle is \_\_\_\_\_.
24. The instrument used to measure an angle is \_\_\_\_\_.
25. \_\_\_\_\_ is the distance around the circle.
26. A line segment that joins the centre to any point on the circle is called \_\_\_\_\_.
27. LCM of 7 and 9 is \_\_\_\_\_.
28. All sides of a square are \_\_\_\_\_ in length.
29. The longest chord of the circle is the \_\_\_\_\_.
30. If the two angles of a triangle are  $110^{\circ}$  and  $40^{\circ}$  then third angle is \_\_\_\_\_.
31. The perimeter of a rectangle with length 6cm and breadth 4cm is \_\_\_\_\_.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

32. If an angle lies between  $0^{\circ}$  and  $90^{\circ}$ , it is an \_\_\_\_\_ angle.
33. Area is expressed in \_\_\_\_\_ units.
34. A Scalene triangle has all sides of \_\_\_\_\_ lengths.
35. A ray has \_\_\_\_\_ length.
36. Sq.cm and sq.m are units of \_\_\_\_\_ lengths.
37. A \_\_\_\_\_ has one end point.
38. The parts of an angle are \_\_\_\_\_ and \_\_\_\_\_.
39. A \_\_\_\_\_ is a closed curve whose all points are at equal distance from a fixed point.
40. The region inside a circle is called the \_\_\_\_\_ parts of the circle.
41. Half of a circle is \_\_\_\_\_.
42. The boiling point of water is \_\_\_\_\_  $^{\circ}\text{C}$ .
43. All the diameters of a circle are \_\_\_\_\_ in length.
44. The side opposite to the right angle is the \_\_\_\_\_.
45. In equilateral triangle, all sides are \_\_\_\_\_ equal in length.
46. \_\_\_\_\_ sides of an isosceles triangle are \_\_\_\_\_ in length.
47. The normal body temperature is \_\_\_\_\_  $^{\circ}\text{F}$ .
48. Each angle of an equilateral triangle measures \_\_\_\_\_.
49. A \_\_\_\_\_ is a special cuboid whose length, breadth and height are equal.
50. Volume is measured in terms of \_\_\_\_\_ units.
51. An empty box and full box of same size and same shape have \_\_\_\_\_ volume.
52. The freezing point of water is \_\_\_\_\_  $^{\circ}\text{F}$ .
53. A line segment has \_\_\_\_\_ end points.
54. Perimeter of a square is \_\_\_\_\_.
55. Perimeter is the \_\_\_\_\_ of all sides of the figure.
56. The level of hotness or coldness of an object is its \_\_\_\_\_.
57. Diameter is \_\_\_\_\_ the length of the radius.
58. \_\_\_\_\_ thermometer is used to measure human body temperature.
59. A simple closed figure made up of three line segments is called \_\_\_\_\_.
60. The boiling point of water is \_\_\_\_\_  $^{\circ}\text{F}$ .
61. If a chord of a circle passes through its centre, it is called \_\_\_\_\_.
62. The liquid metal used in Thermometer is \_\_\_\_\_.
63. The area of a rectangle with length 4cm and breadth 1cm is \_\_\_\_\_

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

64. The freezing point of water is \_\_\_\_\_  $^{\circ}\text{C}$ .
65. The volume of a cube of side 1m is \_\_\_\_\_.
66. The normal body temperature is \_\_\_\_\_  $^{\circ}\text{C}$ .
67. The volume of a book with its height 4cm, length 10cm and breadth 8cm is \_\_\_\_\_.
68. Volume of a cube of side 5cm is \_\_\_\_\_.
69. A ray does not have \_\_\_\_\_ length.
70. Perimeter = \_\_\_\_\_ of all sides.
71. A triangle has \_\_\_\_\_ sides, \_\_\_\_\_ angles and \_\_\_\_\_ vertices.
72. The price at which articles are bought is \_\_\_\_\_.
73. Diameter = \_\_\_\_\_ x radius.
74. To find C.P when there is a profit, \_\_\_\_\_ profit from S.P.
75. If S.P is Rs. 620 and C.P is Rs 680 , then loss is \_\_\_\_\_.
76. The price at which article is sold as \_\_\_\_\_.
77. Volume is measured in \_\_\_\_\_ units.
78. If length and breadth of a rectangle are 7cm and 6cm , then its area is \_\_\_\_\_.
79. The difference between the S.P and the C.P is called \_\_\_\_\_.
80.  $S. P = C.P +$  \_\_\_\_\_
81. If C.P of a pen is Rs 20 and S.P is Rs 25, we get a \_\_\_\_\_ of Rs. 5
82. HCF of 5 and 45 is \_\_\_\_\_.
83. An angle of measure  $85^{\circ}$  is called \_\_\_\_\_.
84. A line segment extended endlessly in one direction is called a \_\_\_\_\_.
85. The angle is formed at the \_\_\_\_\_.
86. A square is considered at the best unit of \_\_\_\_\_.
87. The distance around a circle is called \_\_\_\_\_.
88. All the radii of a circle are \_\_\_\_\_.
89. Half of a semicircle is a \_\_\_\_\_.
90. A circle can be divided into \_\_\_\_\_ quadrants.
91. A triangle is called acute angled if all its sides are \_\_\_\_\_.
92. Any part of the circumference of a circle is called the \_\_\_\_\_.
93. Overhead expenses are always added to \_\_\_\_\_.
94. In a triangle sum of any two sides is \_\_\_\_\_ greater the third side.
95. 5cm, 8cm and 6cm are the measures of a \_\_\_\_\_ types of a triangle.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

96. If speed is 4m/sec and time is 5sec, then distance is \_\_\_\_\_.
97. If the angles of a triangle are  $60^{\circ}$ ,  $90^{\circ}$  and  $30^{\circ}$ , then it is a \_\_\_\_\_ angled triangle.
98. If S.P is SR 840 and C.P is SR 860, then SR 20 is \_\_\_\_\_.
99. If the diameter is 20cm, then the radius is \_\_\_\_\_.
100. Area of a square of side 1cm is \_\_\_\_\_.
101. If the speed is 5m/sec, then the speed in km/hr is \_\_\_\_\_.
102. Distance = \_\_\_\_\_ x Time.
103. Circles which have the same centre are called \_\_\_\_\_ circles.
104. Area of a rectangle of length 1m and breadth 1cm is \_\_\_\_\_.
105. The sum of four equal sides of a square gives its \_\_\_\_\_.

### Subjective Type :

- Find the perimeter of the rectangle with
  - $l=45\text{m}$        $b=28\text{m}$
  - $l=25.4\text{cm}$      $b=13\text{cm}$
  - $l=1\text{m}$            $b=80\text{cm}$
- Find the perimeter of the square with side
  - 32cm
  - 15.4 m
  - 160cm
- Find the area of the rectangle with
  - $l=75\text{cm}$        $b=35\text{cm}$
  - $l=14\text{m}$          $b=12.5\text{m}$
  - $l=8.5\text{m}$        $b=4\text{m}$
- Find the area of the square with side
  - 3.5m
  - 9.6cm
  - 18cm
- Find the volume of a cuboid with
  - $l=2\text{m}$            $b=60\text{cm}$        $h=35\text{cm}$
  - $l=13\text{cm}$          $b=12\text{cm}$        $h=5\text{cm}$
  - $l=4.5\text{m}$          $b=3.5\text{m}$        $h=2\text{m}$
- Find the volume of a cube with side

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

- a) 3.5cm
  - b) 15cm
  - c) 4.2m
7. Find the LCM
- a) 12, 16
  - b) 15, 21
  - c) 36, 48
  - d) 45, 75
  - e) 24, 56
  - f) 25, 90
  - g) 88, 99
  - h) 18, 63
  - i) 21, 14, 42
  - j) 28, 32, 16
  - k) 60, 75, 90
  - l) 42, 36, 18
  - m) 39, 65, 78
8. Find the HCF
- a) 16, 24
  - b) 14, 56
  - c) 36, 28
  - d) 76, 92
  - e) 96, 12
  - f) 26, 43
  - g) 66, 44
  - h) 15, 26
  - i) 16, 40
  - j) 34, 96
  - k) 72, 90
  - l) 57, 39
  - m) 90, 75, 80
  - n) 72, 96, 24
  - o) 17, 65, 91
  - p) 66, 88, 99

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

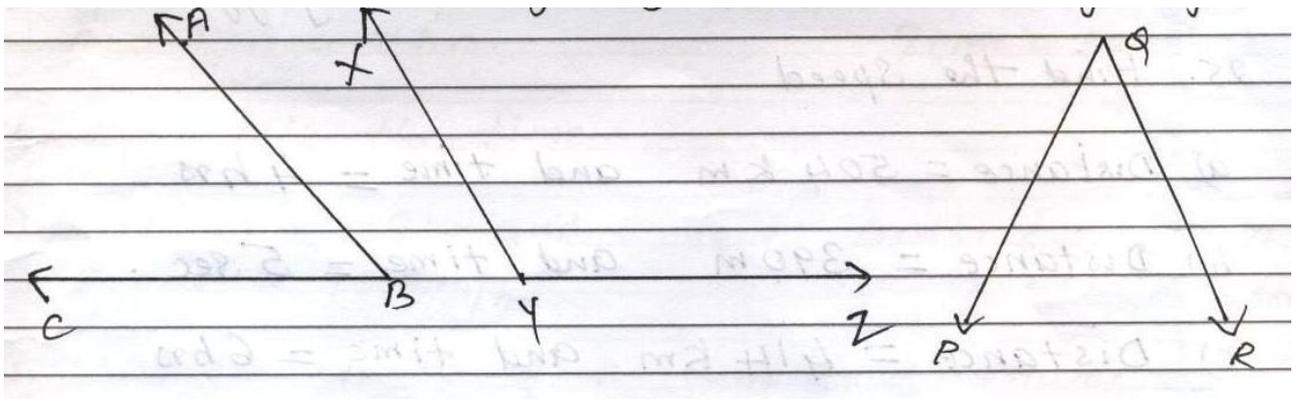
## V – MATHS WORKSHEET

---

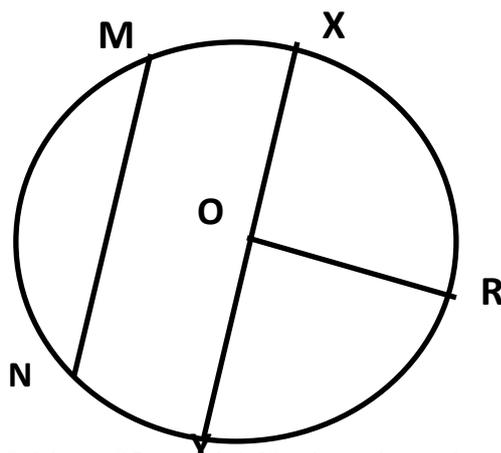
9. Find the diameter of the circle with radius
- 2.4m
  - 3.5cm
  - 12.5cm
10. Find the radius of the circle with diameter
- 25cm
  - 17.4m
  - 18.8cm
11. Construct the following circles :
- With centre O and radius 3.5cm.
  - With centre P and diameter 9cm.
  - Radius 4cm. Draw and measure its longest chord.
12. Draw a circle of radius 5cm and draw
- a radius
  - a diameter
  - a chord
13. Construct the following angles and state the type of angles.
- $65^{\circ}$
  - $115^{\circ}$
  - $90^{\circ}$
  - $70^{\circ}$
  - $120^{\circ}$
14. In which of the following construction of a triangle is possible? ( angles are given)
- $80^{\circ}, 90^{\circ}, 75^{\circ}$
  - $75^{\circ}, 85^{\circ}, 20^{\circ}$
  - $50^{\circ}, 70^{\circ}, 60^{\circ}$
15. In  $\triangle XYZ$   $\angle X = 40^{\circ}$  ,  $\angle Y = 80^{\circ}$  then find  $\angle Z$  ?
16. The length and breadth of a playground are 115m and 84m. Find the length of fencing needed to enclose this play ground.
17. In an isosceles triangle ABC,  $\angle A = \angle B = 70^{\circ}$  , then find  $\angle C$  .
18. Measure the following angles and state the type of angle

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET



19. In which of the following construction of a triangle is possible? (sides are given)
- 3cm, 4cm, 3cm
  - 5cm, 2cm, 8cm
  - 8cm, 5cm, 13cm
20. The length, breadth and height of a brick are 12cm, 9cm and 5.5 cm. What will be the volume of it ?
21. A fish tank is 1m long, 65cm wide and 34cm high. Find the volume of water it can hold ?
22. With the help of a figure, write the name of the following :



- O** -  
**OR** -  
**XY** -  
**MN** -

23. A rectangular field is 425m and 160m broad. Find its perimeter in Km.
24. Ravi jogs around a square park of side 60m. One day he jogged around the park 5 times. How much he jogged in all?
25. Find the speed
- Distance = 504 km and time = 4hrs.
  - Distance = 390 m and time = 5 sec.
  - Distance = 414 km and time = 6hrs.
26. Raju bought 25 purses for Rs. 625. He sold it for SR 1250. Find how much is the profit or loss?
27. If C.P is Rs. 682.25 and loss is Rs 17.75. Find S.P ?

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

28. If S.P is Rs 1964.15 and C. P is Rs. 2395.75. Find how much is profit or loss?
29. If S.P is Rs 8953. 50 and profit is Rs 490. Find C.P.
30. Convert m/sec to km/hr
- 45m/sec
  - 95 m/sec
  - 65 m/sec
31. Convert km/hr to m/sec
- 324 km/hr
  - 201.6km/hr
  - 19.8 km/hr
32. A man sold a sofa for Rs 25, 500 and earned a profit of Rs. 500. Find the C.P of the sofa set.
33. Rajesh bought an old scooter for Rs. 15,750 and spent Rs 650 on its repairing. Then he sold it for Rs. 17, 500. Find his gain or loss.
34. Calculate the distance.
- Speed = 75km/hr and time = 7hrs
  - Speed = 14m/sec and time = 30 sec
35. Calculate the time.
- Distance = 369km and speed = 90km/hr
  - Distance = 497m and speed = 7m/sec
36. Find the length of a cuboid of volume 280cu.cm, height 5cm and breadth 7cm.
37. Find the height of a cuboid of volume 168cu.cm, length 8m and breadth 3m.
38. Find the breadth of a cuboid of volume 1210cu.cm, length 11cm and height 10cm.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

Fill in the blanks:

1. A number is divisible by 10, if its one's place is \_\_\_\_\_
2. A number is divisible by \_\_\_\_\_, if its one's place is 0 or 5.
3. A number is divisible by \_\_\_\_\_, if its one's place is 0,2,4, 6 or 8.
4. \_\_\_\_\_ is neither prime not composite.
5. \_\_\_\_\_ is the smallest prime no.
6. \_\_\_\_\_ is the only even prime no.
7. A number is divisible by 9, if the sum of the digits is divisible by \_\_\_\_\_.
8. Prime numbers have only \_\_\_\_\_ factors.
9. A number is divisible by 3 if the \_\_\_\_\_ is divisible by 3.
10. Co primes are numbers which have only \_\_\_\_\_ as their common factors.
11. LCM of 9 and 10 is \_\_\_\_\_
12. HCF of 17 and 19 is \_\_\_\_\_
13. LCM of 6 and 18 is \_\_\_\_\_
14. HCF of 9 and 45 is \_\_\_\_\_
15. A number is divisible by \_\_\_\_\_, if it is divisible by both 2 and 3.

Answer the following :

1. Without actual division , check whether the following are divisible by 2  
(b) 7422                      (b)39582                      (c)14659                      (d)52314
2. Check whether the following are divisible by 3  
(a) 741352                      (b)2034198                      (c)317925                      (d)3412920
3. Check whether the following are divisible by 4  
(a) 4137156                      (b)135764                      (c)34560                      (d)167435
4. Check whether the following are divisible by 5  
(a) 187620                      (b)258732                      (c)361245                      (d)705204
5. Check whether the following are divisible by 6  
(a) 4234156                      (b)1027863                      (c)924658                      (d)1850421
6. Check whether the following are divisible by 8  
(a) 1967000                      (b)2587382                      (c)3614944                      (d)191640
7. Check whether the following are divisible by 9  
(a) 739602                      (b)2034198                      (c)674132                      (d)7413552
8. Check whether the following are divisible by 10  
(a) 395725                      (b)6042190                      (c)814231                      (d)42950
9. Check whether the following are divisible by 11

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

- (a) 666666 (b)1251206 (c)7917624 (d)6510625

### 10. Find LCM

- (b) 36,20 (b)36, 48, 64  
(c)24, 36 (d)39, 65, 78  
(f) 60,72,96 (f)48,60  
(g)12,15,45 (h)42,36  
(j) 14,21 (j)25,65  
(k)48,60 (l)35,40  
(n) 50,60 (n)36, 49  
(o)26,13,91 (p)60,84,96

### 11. Find the HCF

- (a) 16,24 (b)28,36  
(c)40,24 (d)52,68  
(f) 36,18 (f)42,72,18  
(g)16,32,40 (h)42,72,18  
(j) 6,10,28 (j)66,44  
(k)38,60 (l)45,18,36  
(m) 26,43

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

Fill in the blanks :

1. Number name for 35,06,07,001 is \_\_\_\_\_.
2. If a number ends with 0,2,4,6 or 8 it is divisible by \_\_\_\_\_.
3. H.C.F of 5 and 6 is \_\_\_\_\_.
4.  $1\frac{3}{4} + 0 =$  \_\_\_\_\_.
5. Place value of 6 in 36,47,008 is \_\_\_\_\_.
6. All even numbers are \_\_\_\_\_ except 2.
7. L.C. M of 7 and 8 is \_\_\_\_\_.
8.  $4\frac{1}{5} - 0 =$  \_\_\_\_\_.
9. Numeral for eighty crore six lakh five thousand is \_\_\_\_\_.
10. A number is divisible by 3 if the \_\_\_\_\_ of the digits is divisible by 3.
11. H.C.F of 3 and 15 is \_\_\_\_\_.
12. Mixed numeral for 14 is \_\_\_\_\_.
13. Number name for 36, 005, 081 , 011 is \_\_\_\_\_.
14. A number is divisible by \_\_\_\_\_ if it is divisible by both 2 and 3.
15. L.C. M of 3 and 15 is \_\_\_\_\_.
16. Fraction for  $8 \div 9$  is \_\_\_\_\_.
17. Numeral for seven million five is \_\_\_\_\_.
18. A number is divisible by 5 if it has 0 and 5 in \_\_\_\_\_ place.
19. A number which has Only two factor is called \_\_\_\_\_.
20.  $\frac{13}{19}$  is a \_\_\_\_\_ fraction .[ Proper or Improper fraction]
21. A number is divisible by 10 if it is \_\_\_\_\_ in one's place .

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

22. Standard form for  $\frac{12}{16}$  is \_\_\_\_\_.

23.  $3333 \times 1000 =$  \_\_\_\_\_.

24. Numbers which are not divisible by 2 are called \_\_\_\_\_ numbers.

25.  $\frac{4}{5} = \frac{\square}{25}$

26. All prime numbers are odd except \_\_\_\_\_.

27. HCF of 12 and 16 is \_\_\_\_\_.

28.  $5555 \div 555 =$  \_\_\_\_\_.

29. 415644 is divisible by 4 or not. \_\_\_\_\_ [Write Yes or No.]

30.  $\frac{1}{5}, \frac{7}{5}, \frac{3}{5}, \frac{4}{5}$  are \_\_\_\_\_ fractions.

31. All even numbers are composite except \_\_\_\_\_.

32.  $55555 + 10000 =$  \_\_\_\_\_.

33. If population of Riyadh is 89,46,312 and that of Jeddah is 98,44, 312 then \_\_\_\_ has more population.

34. Write  $\frac{4}{9}$  as division.

35. Place value of 7 in 372,462,005 is \_\_\_\_\_.

36. All prime numbers have only \_\_\_\_\_ factors.

37. LCM of 12 and 16 is \_\_\_\_\_.

38. \_\_\_\_\_ is the common factor of co-prime numbers.

39. A number which has more than two factors is called \_\_\_\_\_.

40.  $1\frac{3}{5} - 1\frac{3}{5} =$  \_\_\_\_\_.

41. In an \_\_\_\_\_ fraction the numerator is greater than the denominator.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

42. 38643215 can be written as \_\_\_\_\_ in Indian System.
43. \_\_\_\_\_ is neither prime nor composite.
44. HCF of 1 and 5 is \_\_\_\_\_.
45.  $\frac{1}{5}$ ,  $\frac{1}{15}$ ,  $\frac{1}{9}$ ,  $\frac{1}{7}$  are \_\_\_\_\_ fractions.
46. Is 14356 divisible by 10. Write Yes or No.
47. To add or subtract the fractional numbers we must find \_\_\_\_\_ of the denominators.
48. Is 38542 is divisible by 2. Write Yes or No . \_\_\_\_\_
49. 485630051 can be written as \_\_\_\_\_ in International system .
50.  $4\frac{1}{5} + 1 =$  \_\_\_\_\_.
51. Numbers which are divisible by 2 are called \_\_\_\_\_.
52. Is 386005 divisible by 5. \_\_\_\_\_.[Write Yes or No].
53. A number is divisible by 9 if the sum of the digits is divisible by \_\_\_\_\_.
54. \_\_\_\_\_ is the smallest prime number.
55. LCM of 1 and 99 is \_\_\_\_\_.
56. Improper fraction for  $3\frac{1}{7}$  is \_\_\_\_\_.
57. Are all odd numbers divisible by 2 . \_\_\_\_\_[Write Yes/No]
58.  $483561 - 83561 =$ \_\_\_\_\_.
59.  $10000 + 9999 =$  \_\_\_\_\_
60.  $10000 - 9999 =$  \_\_\_\_\_.
61.  $10000 \times 9999 =$  \_\_\_\_\_.
62. Lowest term for  $\frac{14}{21}$  is \_\_\_\_\_.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

63. In Lulu market 86945 mangoes are sold out of 87143. Number of left mangoes are \_\_\_\_\_.

64. A number is divisible by 8 if the number formed by last \_\_\_\_\_ digits on the extreme right is divisible by 8.

65. Lowest term for  $\frac{25}{5}$  is \_\_\_\_\_.

66.  $\frac{16}{24} = \frac{2}{\square}$

67. A number which is divisible by 6 is also divisible \_\_\_\_\_ and \_\_\_\_\_.

68. Is 435008 divisible by 8. \_\_\_\_\_ [Write Yes or No]

69.  $\frac{1}{7}$  is a proper fraction and also \_\_\_\_\_.

70.  $6\frac{1}{5} - 4\frac{1}{5} =$  \_\_\_\_\_.

Answer the following :

1. Subtract

a ) 568312 from 639165

b) 98765 from 103762

c) 7632158 from 873697

d) 3639125 from 7256312

2. Check whether the following are divisible by 11 or not

a) 9999999

b) 83425617

c) 413462

d) 9350825

3. Add the following :

a)  $\frac{3}{7} + \frac{2}{14}$

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

b)  $1\frac{3}{15} + \frac{7}{10}$

c)  $\frac{4}{9} + \frac{2}{9}$

4. Find the HCF of the following :

a) 24, 48, 56

b) 63, 49, 21

c) 28, 42

d) 45, 20

e) 36, 24, 12

f) 25, 49, 30

5. Check whether the following are divisible by 8 or not .

a) 312684

b) 415325

c) 816336

6. Without actual division find whether the following are divisible or not.

a) 312642

b) 813021

c) 9163416

7. Add the following :

a) 9316258, 235689 and 13580

b) 413268, 913259 and 6285671

c) 21362, 4589615 & 732648

d) 81235867 and 9123456781

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

8. Find three equivalent fractions for each of the following :

a)  $\frac{3}{5}$    b)  $\frac{7}{9}$    c)  $\frac{11}{24}$

9. Find the LCM for the following :

a) 36,48,60

b) 72,76

c) 84,40,24

d) 30,25,40

e) 48,72

f) 56,48,64

10. Multiply the following :

a)  $3896 \times 432$

b)  $1086 \times 407$

c)  $7156 \times 155$

d)  $913 \times 4807$

11. Check whether the following are divisible by 9 or not.

a) 3693321

b) 814325

c) 93258

d) 620582

12. Check whether the following are divisible by 4 or not

a) 836142

b) 81348

c) 1324896

d) 832418

e) 913265

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

13. Check whether the following are divisible by 2 or not

a) 91613258

b) 813250

c) 41536

d) 246805

e) 34564

14. Subtract the following and write in lowest term.

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

b)  $\frac{8}{9} - \frac{4}{5}$

c)  $4\frac{2}{5} - 3\frac{1}{10}$

d)  $\frac{7}{12} - \frac{5}{13}$

e)  $1\frac{2}{15} - \frac{7}{10}$

Do as directed :

1. Divide the following :

a.  $38794 \div 287$

b.  $302456 \div 715$

c.  $444444 \div 444$

d.  $999999 \div 100$

e.  $100000 \div 999$

f.  $297245 \div 392$

2. Check whether the following are divisible by 3 or not.

a) 834216

b) 41235

c) 816325

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

Answer the following :

1. There are 875682 expatriates in Riyadh. 415623 expatriates in Dammam and 987613 expatriates in Jeddah. Find how many expatriates are there in these three cities.
2. There are 796345 expatriates in Riyadh and 743682 expatriates in Alkhobar. Which city has more expatriates and by how much.
3. In a box 8563 oranges are packed. Find how many oranges are packed in 956 boxes.
4. In a box 916 mangoes are packed. Find how many boxes are required to pack 297700 mangoes.
5. Find the dividend if the divisor is 216, quotient is 493 and the remainder is 135.
6. The difference of two numbers is 8962325. If the smaller number is 7134854. Find the larger number.
7. In 157 boxes 129525 apples are packed. Find how many apples are packed in a box.
8. A plane carries 545 passengers. Find how many passengers are there in 457 such planes.
9. In 325 planes 167375 passengers travel. Find how many passengers are carried in a plane.
10. In 2010 the population of a country was 8364561 and the present population is 8369526. Find the increase in population.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

### Decimals

Fill in the blanks

1. Decimal fractions having equal number of decimal places are called \_\_\_\_\_ decimal fractions.
2. Decimal fractions having unequal number of decimal places are called \_\_\_\_\_ decimal fractions.
3. Decimal fractions having equal values are called \_\_\_\_\_ decimal fractions.
4. 5.38, 6.95, 4.83 are \_\_\_\_\_ decimals.
5. 7.3, 1.25, 6.395 are \_\_\_\_\_ decimals.
6.  $3.5 = 3.50 =$  \_\_\_\_\_.
7. In 12.25, the integral part (whole no. part) is \_\_\_\_\_ and the decimal part is \_\_\_\_\_.

Do as directed

1. Encircle the decimal fractions :

$$\frac{2}{10}, \quad \frac{3}{7}, \quad \frac{15}{100}, \quad \frac{4}{1000}, \quad \frac{13}{11}, \quad \frac{45}{53}, \quad \frac{7}{100},$$

2. Write the following as decimals :

1.  $\frac{3}{10},$
2.  $\frac{15}{100},$
3.  $\frac{436}{1000},$
4.  $\frac{9}{100},$

5.  $\frac{43}{1000},$
6.  $\frac{7}{10},$
7.  $\frac{8}{1000},$
8.  $\frac{349}{10},$

3. Write the following mixed numbers as decimal :

1.  $2\frac{3}{10},$
2.  $15\frac{33}{100},$
3.  $214\frac{5}{100},$
4.  $6\frac{231}{1000},$

5.  $6\frac{11}{100},$
6.  $3\frac{4}{10},$
7.  $16\frac{25}{1000},$
8.  $36\frac{4}{100},$

4. Write the following decimals as mixed numbers :

1. 3.65
2. 15.003
3. 6.048

4. 4.09
5. 25.015
6. 6.39

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

5. Write the place value of the underlined digits :

1. 13.385      2. 6.039      3. 57.713

4. 143.84      5. 6.009      6. 42.906

6. Put the correct symbol <, > or = :

1. 3.75  37.5      2. 12.289  12.045

2. 9.357  9.53      4. 18.93  20

3.  $5\frac{7}{100}$ ,   $5\frac{7}{10}$       6.  $9.03$   $9\frac{3}{100}$ ,

7. Arrange in columns and add :

A.1. 13.26 + 135.78

2. 16.8 + 0.85

3. 46.375 + 18.283 + 0.3954

4. 15.25 + 9 + 8.25

B.1. ₹ 38.5 + ₹ 15.75

2. 0.075 l + 25 l

3. 0.95 m + 16.85 m

4. 132 m + 0.85 m

5. 50.75 kg + 3.785 kg

6. 25 km + 5.257 km

8. Subtract the following :

1. ₹ 58 - ₹ 6.75    2. 385.28 kg - 365 kg    3. ₹ 20 - ₹ 15.75    4. 59.945 kg - 5.9 kg

5. 2 km - 1.375 km    6. 48 kg - 13.475 kg

9. Convert into like decimals :

1. 3.5, 6.95      2. 18.753, 16.2    3. 500.008, 92.3      4. 9.09, 9.9

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

### Fractions

I Fill in the blanks :

1.  $\frac{2}{5} \times 1 =$  \_\_\_\_\_

2.  $\frac{3}{7} \times 0 =$  \_\_\_\_\_

3.  $\frac{1}{2} \times \frac{3}{7} = \frac{3}{7} \times$  \_\_\_\_\_

4. \_\_\_\_\_  $\times \frac{2}{9} = 0$

5.  $\frac{2}{3} \times \frac{3}{2} =$  \_\_\_\_\_

6. If the product of two numbers is 1, then one number is called the \_\_\_\_\_ of the other number.

7.  $6 \times$  \_\_\_\_\_  $= 1$

8. \_\_\_\_\_  $\times \frac{5}{7} = 1$

9. Multiplicative inverse of \_\_\_\_\_ does not exist.

10. The number whose reciprocal is number itself is \_\_\_\_\_.

11.  $\frac{4}{9} \div$  \_\_\_\_\_  $= \frac{4}{9}$

12.  $\frac{6}{7} \div \frac{6}{7} =$  \_\_\_\_\_

13. \_\_\_\_\_  $\div 1 = \frac{8}{9}$

14.  $0 \div \frac{6}{10} =$  \_\_\_\_\_

15.  $1 \div \frac{13}{15} =$  \_\_\_\_\_

16. We cannot divide a fraction by \_\_\_\_\_

17.  $\frac{15}{16} \div 1 =$  \_\_\_\_\_

18.  $1 \div \frac{9}{10} =$  \_\_\_\_\_

19.  $4\frac{3}{5} \div \frac{23}{5} =$  \_\_\_\_\_

20. Multiplicative inverse of 5 is \_\_\_\_\_

21. Multiplicative inverse of  $\frac{4}{5}$  is \_\_\_\_\_

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

### II. Simplify

a)  $\frac{3}{5} \times 12$       b)  $10 \times \frac{12}{15}$       c)  $3\frac{1}{3} \times 15$       d)  $\frac{9}{10} \times \frac{25}{27}$       e)  $\frac{13}{2} \times \frac{6}{26}$

f)  $\frac{9}{16} \times 24$       g)  $\frac{2}{3} \times \frac{6}{9} \times \frac{12}{15}$       h)  $\frac{4}{7} \times \frac{14}{21} \times \frac{3}{4}$       i)  $16 \times 3\frac{3}{4}$       j)  $\frac{9}{16} \times 24$

k)  $25 \times \frac{20}{30}$       l)  $\frac{12}{16} \times \frac{20}{25} \times \frac{5}{10}$       m)  $\frac{2}{4} \times \frac{8}{10} \times \frac{7}{21}$

### III. Simplify

a)  $2 \div \frac{7}{8}$       b)  $12 \div \frac{16}{20}$       c)  $\frac{9}{15} \div \frac{1}{27}$       d)  $\frac{5}{12} \div 3\frac{2}{6}$       e)  $1\frac{1}{2} \div \frac{3}{9}$

f)  $\frac{6}{15} \div 3$       g)  $\frac{4}{5} \div \frac{2}{5}$       h)  $\frac{3}{5} \div \frac{5}{5}$       i)  $\frac{1}{7} \div \frac{2}{6}$

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

### Decimal And Average

I. Fill in the blanks:

- To multiply a decimal fraction by 10 we shift the decimal point to the right by \_\_\_\_\_ place.
- To multiply a decimal fraction by 1000 we shift the decimal point to the \_\_\_\_\_ by 3 places.
- $0.8 \times 10 =$  \_\_\_\_\_
- $6.5 \times 100 =$  \_\_\_\_\_
- $0.95 \times 1000 =$  \_\_\_\_\_
- $2.8 \times$  \_\_\_\_\_  $= 280$
- $8.45 \times$  \_\_\_\_\_  $= 84.5$
- $0.46 \times$  \_\_\_\_\_  $= 46$
- $1.98 \times$  \_\_\_\_\_  $= 0$
- \_\_\_\_\_  $\times 1 = 3.9$
- $0.8 \times 5 =$  \_\_\_\_\_
- $5.9 \times 3.7 = 3.7 \times$  \_\_\_\_\_
- To divide a decimal fraction by 10, we shift the decimal point to the \_\_\_\_\_ by one place.
- To divide a decimal fraction by 100, we shift the decimal point to the left by \_\_\_\_\_ places.
- $1.5 \div 10 =$  \_\_\_\_\_
- $25.6 \div 1000 =$  \_\_\_\_\_
- $0.39 \div 100 =$  \_\_\_\_\_
- $5.92 \div$  \_\_\_\_\_  $= 0.0592$
- $23.9 \div$  \_\_\_\_\_  $= 2.39$
- \_\_\_\_\_  $\div 100 = 25.35$

II. Find the product

- |                      |                        |                       |
|----------------------|------------------------|-----------------------|
| a. $4.48 \times 390$ | b. $0.8 \times 25$     | c. $3.5 \times 96$    |
| d. $107.6 \times 32$ | e. $3.9 \times 0.6$    | f. $0.08 \times 10.9$ |
| g. $3.75 \times 4.7$ | h. $4.36 \times 0.526$ | i. $7.98 \times 46$   |

III. Divide and find the quotient

- |                    |                    |                      |
|--------------------|--------------------|----------------------|
| a. $3.784 \div 4$  | b. $1.92 \div 25$  | c. $0.0075 \div 125$ |
| d. $17.76 \div 32$ | e. $0.9 \div 900$  | f. $819.6 \div 40$   |
| g. $1.2 \div 300$  | h. $1.05 \div 1.5$ | i. $18 \div 0.9$     |
| j. $11.59 \div 19$ | k. $480 \div 9.6$  | l. $545.1 \div 600$  |

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

IV If  $39 \times 27 = 1053$ , find the product of each of the following and fill in the blanks:

- a.  $3.9 \times 27 =$  \_\_\_\_\_      b.  $0.39 \times 2.7 =$  \_\_\_\_\_  
b.  $3.9 \times 2.7 =$  \_\_\_\_\_      d.  $0.39 \times 0.27 =$  \_\_\_\_\_  
e.  $39 \times 0.27 =$  \_\_\_\_\_      f.  $3.9 \times 0.27 =$  \_\_\_\_\_

V. Fill in the blanks :

1. The \_\_\_\_\_ is a measure for characterising a group of numbers with one number.
2. An \_\_\_\_\_ gives us an idea of general standard of a group.
3. Average of 4 and 6 is \_\_\_\_\_.
4. The average of first 2 odd numbers is \_\_\_\_\_.
5. The average of first 2 even numbers is \_\_\_\_\_.

VI. Find the average of the following set of numbers.

- a. 25, 30, 35, 40      b. 23, 27, 31, 35, 38  
b. 15 l, 27 l, 30 l      d. 3.5, 4.6, 6.2, 7.8, 5.4  
e. Rs. 24.50, Rs. 32, Rs. 35.50, Rs. 13.50      Rs. 35, Rs. 29.50

VII Do the following

- a. The age of 4 children in a group is 12 years, 15 years, 13 years and 16 years.  
Find their average age.
- b. The height of 5 boys in a class are 150 cm, 145 cm, 138 cm, 140 cm, 127 cm. Find the average height of a child in the group
- c. The sum of 5 numbers is 180. Find their average.
- d. The total marks obtained by Anil in 6 subject is 546. Find his average mark.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

### I. Fill in the blanks

1. Percent means \_\_\_\_\_.
2. The term percent comes from the Latin words \_\_\_\_\_ which means \_\_\_\_\_.
3. The symbol for percentage is \_\_\_\_\_.
4. To express a fraction as percentage convert it into an equivalent fraction with denominator.
5.  $\frac{80}{100} = \underline{\hspace{2cm}}$  %
6.  $\frac{2}{100} = \underline{\hspace{2cm}}$  %
7.  $\frac{125}{100} = \underline{\hspace{2cm}}$  %
8. If the denominator of a fraction is 100 then the numerator gives \_\_\_\_\_ equivalent to the fraction.
9. A given percentage may be expressed as a fraction by dividing the no. of percentage by \_\_\_\_\_.
10. In a decimal fraction is we shift the decimal point \_\_\_\_\_ places to the right, we get the percentage.
11.  $0.02 = \underline{\hspace{2cm}}$  %
12.  $1.25 = \underline{\hspace{2cm}}$  %
13. 100% of Rs. 25 = \_\_\_\_\_
14. 50% of 100 = \_\_\_\_\_

### II. Convert these fractions into percentage

1.  $\frac{1}{2}$
2.  $\frac{1}{4}$
3.  $\frac{3}{5}$
4.  $\frac{7}{10}$
5.  $\frac{15}{20}$
6.  $\frac{4}{25}$

### III. Express these percentage as fractions (in the lowest form)

1. 20%
2. 75%
3. 25%
4. 45%
5.  $12\frac{1}{2}$  %
6.  $6\frac{1}{4}$  %
7. 120%
8.  $33\frac{1}{3}$  %

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

IV. Express these as decimals

1. 6%
2. 25%
3. 1%
4.  $4\frac{1}{2}$  %
5. 125%
6.  $33\frac{1}{2}$  %

V. Express as percents

1. 0.05
2. 0.75
3. 6.5
4. 3.5
5. 0.056
6. 0.025

VI. Find the value of each of the following :

1. 5% of 100
2. 90% of 1000
3.  $3\frac{1}{5}$  % of 500
4. 5% of Rs. 90
5. 250% of Rs. 80
6. 30% of 20 Kg
7. 10% of 100 g
8. 40% of 50 marks
9. 12.5% of 24 ml

VII. Which of the two is more :

1. 10% of 50 or 50% of 8
2. 30% of 200 or 25% of 300

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

- VIII. 1. Rom got 60 out of 80 in English. Find the percentage of marks he got in the two subjects. Which mark is better ?
2. In a class of 80 students, 30% are girls. Find the number of boys.
3. There are 1500 students in a school 80% of the total students are present in the school. How many students are absent on that day?
4. Anant got 17 out of 20 marks in a test. What percentage of marks did he get?
5. Out of 40 eggs 8 were damaged. What percentage of eggs were good?
6. Arun scored 80% of marks in a test which had 15 questions carry equal marks. How many questions did he answer correctly?

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

### Profit And Loss

I Fill in the blanks

1. The price at which an article is bought is its \_\_\_\_\_.
2. The \_\_\_\_\_ includes overhead expenses.
3. The Price at which an article is sold is its \_\_\_\_\_.
4. If the goods are sold at higher price than C.P. then there is a \_\_\_\_\_.
5. If  $S.P. < C.P.$  then there is a \_\_\_\_\_.
6. If  $S.P. > C.P.$  then  $S.P. - C.P. =$  \_\_\_\_\_.
8.  $S.P. = \text{Rs. } 210$   $C.P. = \text{Rs. } 190$  then Profit = \_\_\_\_\_
7. If  $S.P. < C.P.$  then  $C.P. - S.P. =$  \_\_\_\_\_.

II Find the Profit or Loss

1.  $SP = \text{Rs. } 12350$                        $CP = \text{Rs. } 11950$
2.  $SP = ₹ 920.50$                        $CP = ₹ 860$
3.  $SP = ₹ 1540$                                $CP = ₹ 1682.50$
4.  $SP = ₹ 25580$                                $CP = ₹ 26495.00$

III Find the selling price

1.  $CP = ₹ 650.25$                       Profit = ₹ 40.75
2.  $CP = ₹ 908.50$                       Profit = ₹ 60.50
3.  $CP = ₹ 625.50$                       Loss = ₹ 35.50
4.  $CP = ₹ 75$                               Loss = ₹ 2.50

IV Find the cost price

1.  $SP = ₹ 35.25$                       Profit = ₹ 6.50
2.  $SP = ₹ 54.00$                       Profit = ₹ 4.25

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

3.  $SP = ₹ 24.20$        $Loss = ₹ 2.40$

4.  $SP = ₹ 28$        $Loss = ₹ 3.20$

V . 1. Anu bought a sewing machine for Rs. 4830 and sold it at loss of Rs. 265.

Find the selling price?

2. Rohit bought a fridge for Rs. 9450 and spent Rs. 380 for transportation. He sold it for Rs. 9975.

Find his profit or loss.

3. Ram bought an old bicycle for Rs. 650 and spent Rs. 85 on its repairing. Then he sold it for Rs. 800. Find his gain or loss.

4. Arun bought a T.V. for Rs. 7750. He spent Rs. 125 on its transportation. Then he sold it at a gain of Rs. 225. Find the selling price.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

### Area And Perimeter & Volume

#### Objective Type

1. The amount of surface occupied by a figure is given by its \_\_\_\_\_.
2. The formula used to find the perimeter of rectangle is \_\_\_\_\_.
3. The area of rectangle with length 12 cm and breadth 8 cm is \_\_\_\_\_.
4. The distance around a closed figure is called its \_\_\_\_\_.
5. The perimeter of square of side 15 m is \_\_\_\_\_.
6. Volume of cuboid = length x \_\_\_\_\_ x height
7. The amount of space occupied by a solid gives its \_\_\_\_\_.
8. The measure of inner space of a hollow solid is called its \_\_\_\_\_.
9. The volume of cube of edge 5 cm is \_\_\_\_\_.
10. Sq m and sq cm are \_\_\_\_\_ units of measuring \_\_\_\_\_.
11. The perimeter of rectangle with length 8 m and width 5 m is \_\_\_\_\_.
12. The volume of a cuboid with length 5m, breadth 4m and height 3m is \_\_\_\_\_.
13. Volume is expressed in \_\_\_\_\_ units.
14. Area is expressed in \_\_\_\_\_ units.
15. All sides of a square are \_\_\_\_\_ in length.
16. An empty box and full box of same size and shape have \_\_\_\_\_ volume.
17. Perimeter = \_\_\_\_\_ of all sides.
18. 4 x side gives the \_\_\_\_\_ of a square.
19. The perimeter of a triangle with side 9 cm, 8 cm and 7 cm is \_\_\_\_\_.
20. Length x breadth gives the \_\_\_\_\_ of a rectangle.
21. The area of a square of side 12 cm is \_\_\_\_\_.
22. The \_\_\_\_\_ of a figure is the number of times the unit square is continued in the figure.
23. Cubic metre and cubic centimeter are units of measuring \_\_\_\_\_.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

24. A \_\_\_\_\_ is a special cuboid whose length, breadth and height are equal.

25. A \_\_\_\_\_ is a special rectangle whose length and breadth are equal.

### Subjective Type questions :

1. Find the area of the square with

a. Side = 14 cm

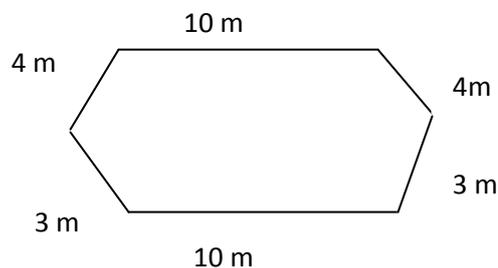
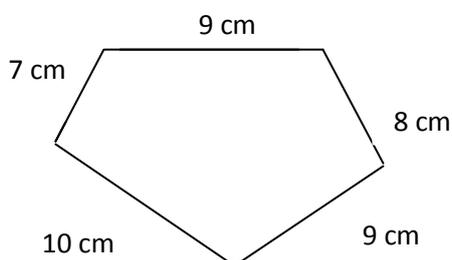
b. Side = 8.5 m

2. Find the area of rectangle with

a)  $\ell = 15$  cm       $b = 10$  cm

b)  $\ell = 25$  m       $b = 9.5$  m

3. Find the perimeter of the following shapes



4. Find the perimeter of a square whose

a) side = 18 cm

b) side = 36.25 m

5. Find the perimeter of rectangle whose

a)  $\ell = 24$  cm       $b = 16$  cm

b)  $\ell = 32.5$  m       $b = 25.25$  m

6. Find volume of a cube of edge

a) 13 cm

b) 21 m

7. Find the volume of a cuboid with

a)  $\ell = 12$  cm       $b = 10$  cm       $h = 8$  cm

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

b)  $\ell = 15 \text{ cm}$     $b = 7.5 \text{ m}$     $h = 9.5 \text{ m}$

8. Find the missing dimension in the following cuboid.

a.  $V = 2400 \text{ cu cm}$

$\ell = 60 \text{ cm}$

$b = 8 \text{ cm}$

$h = ?$

b.  $V = 1350 \text{ cu cm}$

$\ell = 20 \text{ cm}$

$b = ?$

$h = 7.5 \text{ cm}$

b.  $V = 380 \text{ cu m}$

$\ell = ?$

$b = 9.5 \text{ m}$

$h = 2 \text{ m}$

9. A rectangular field is 425 m long 160 m broad. Find the perimeter of the field in km.

10. The length, breadth and height of a brick are 14 cm, 10 cm and 6 cm respectively. Find the volume one brick and 10 such bricks.

11. A fish tank is 60 cm long, 30 cm wide and 40 cm high. Find the volume of the fish tank.

12. A square park has a side of 80 m. Find the total distance you cover in jogging around it 5 times.

13. The edge of a cuboid wooden boxes 50 cm find its volume.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

### Lines, Angles, Circles and Triangles

I. Fill in the blanks:

1. A line segment has \_\_\_\_\_ end points.
2. A ray extends in \_\_\_\_\_ direction.
3. A \_\_\_\_\_ has a definite length.
4. A line has \_\_\_\_\_ end points.
5. You cannot measure a \_\_\_\_\_ and a \_\_\_\_\_.
6. A ray has \_\_\_\_\_ end point.
7. Two rays having a common end point form an \_\_\_\_\_.
8. A right angle measures \_\_\_\_\_.
9. Acute angles is more than \_\_\_\_\_ and less than \_\_\_\_\_.
10. A \_\_\_\_\_ angle measures  $180^{\circ}$
11. \_\_\_\_\_ angle is more than  $90^{\circ}$  and less than  $180^{\circ}$ .
12. An angle that is  $89^{\circ}$  is an \_\_\_\_\_ angle.
13. \_\_\_\_\_ angle is more than  $0^{\circ}$  and less than  $90^{\circ}$ .
14. The common end point which forms an angle is called its \_\_\_\_\_.
15. The part of line that has 2 end point is a \_\_\_\_\_.
16. An angle that is  $100^{\circ}$  is an \_\_\_\_\_ angle.
17. Lines that meet at right angle are called \_\_\_\_\_ lines.
18. The needles at 9:15 a.m. form a \_\_\_\_\_ angle on the face of the clock.
19. Every point on a circle is at the same distance from the \_\_\_\_\_.
20. A line segment from centre to any point on the circle is called \_\_\_\_\_.
21. All the radii of a circle are \_\_\_\_\_.

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

22. A line segment whose end points are on the circle is called a \_\_\_\_\_ of the circle.
23. The longest chord of a circle is called a \_\_\_\_\_.
24. The radius of circle is \_\_\_\_\_ of the diameter.
25. The diameter of a circle is passes through the \_\_\_\_\_ of the circle.
26. The diameter of a circle is \_\_\_\_\_ the radius.
27. All the diameters of a circle are \_\_\_\_\_.
28. We can use a \_\_\_\_\_ protractor to measure angles.
29. In  $\angle$  PQR, the vertex is \_\_\_\_\_ and the arms are \_\_\_\_\_ and \_\_\_\_\_.
30. Diameter = 2 x \_\_\_\_\_.
31. Radius = \_\_\_\_\_  $\div$  2
32. The radius of a circle is 6 cm. Its diameter is \_\_\_\_\_.
33. The diameter of a circle is 11 cm. Its radius is \_\_\_\_\_.
34. A triangle has \_\_\_\_\_ sides and \_\_\_\_\_ vertices.
35. A scalene triangles has all sides are \_\_\_\_\_ in lengths.
36. An equilateral triangle has all sides, are \_\_\_\_\_ in lengths.
37. An isosceles triangle has \_\_\_\_\_ sides are equal in length.
38. Each angle of an equilateral triangle is measure \_\_\_\_\_.

### Subjective Type questions :

1. Find the diameter of the circle with radius
  - a. 2.7 cm
  - b. 12.3 cm
  - c. 7.5 cm
  - d. 8 cm
2. Find the radius of the circle with diameter
  - a. 9 cm
  - b. 14 cm
  - c. 4.4 cm
  - d. 11.8 cm

# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

3. Draw the circles

a. radius = 4.5 cm

b. Diameter = 10 cm

c. radius = 3.5 cm and measure its longest chord

4. Construct the following angles and state the type of angles.

a.  $65^\circ$

b.  $120^\circ$

c.  $90^\circ$

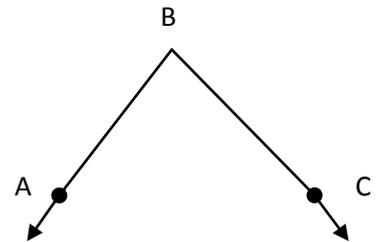
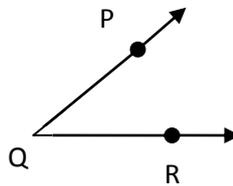
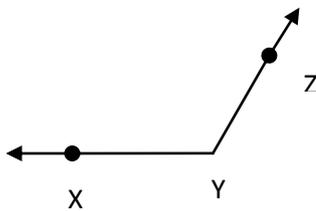
d.  $30^\circ$

e.  $105^\circ$

5. In  $\triangle ABC$ ,  $\angle A = 50^\circ$  and  $\angle B = 70^\circ$ , the find  $\angle C = ?$

6. In an isosceles  $\triangle PQR$ ,  $\angle P = \angle R = 65^\circ$ , then find  $\angle Q = ?$

7. Measure the following angles and state the type of angle.



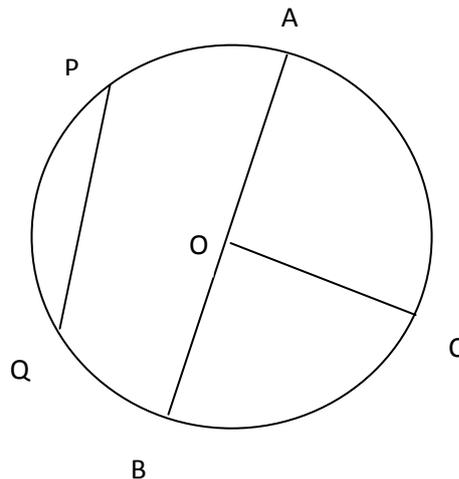
8) With the help of the figure, write the name of the following

i)  $PQ =$

ii)  $AB =$

iii)  $O =$

iv)  $OC =$



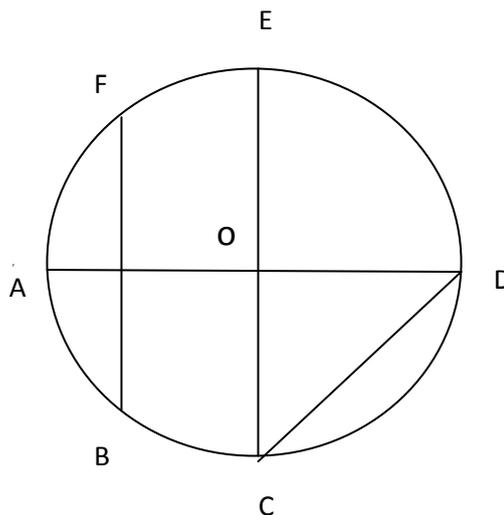
# BRILLIANT PUBLIC SCHOOL, SITAMARHI

## V – MATHS WORKSHEET

---

9) In the given figure name the following

- i) Centre of the circle
- ii) All the radii
- iii) All the diameters
- iv) All the chords



10) In which of the following cases is a triangle possible with given group of sides

- i) 8 cm, 7 cm, 15 cm
- ii) 9 cm, 6 cm, 8 cm
- iii) 1 cm, 2 cm, 4 cm
- iv) 3 cm, 4 cm, 5 cm

11) In which of the following cases is the construction of a triangle possible.

- i)  $80^{\circ}$ ,  $70^{\circ}$ ,  $60^{\circ}$
- ii)  $90^{\circ}$ ,  $45^{\circ}$ ,  $45^{\circ}$
- iii)  $50^{\circ}$ ,  $50^{\circ}$ ,  $80^{\circ}$
- iv)  $39^{\circ}$ ,  $85^{\circ}$ ,  $65^{\circ}$