



ANNUAL EXAMINATION 2017-18
Grade: VI
SUBJECT: MATHEMATICS
WORKSHEET-I

Block : 18 Decimals

(Choose the correct answer from bracket)

1. The decimal representation of $\frac{9.9}{100}$ is _____
(9.9, 0.99, 0.099, 90.9)
2. Seventy-six and eighty-two hundredths is _____
(7682, 76.82, 768.2, 7.682)
3. The decimal form of $40 + \frac{237}{1000}$ _____
(402.37 , 40.237, 4023.7, 4.0237)

(Fill in the blanks with suitable answer)

1. The smallest of 0.099 and 0.101 is _____
2. The decimal form of $\frac{115}{125}$ is _____
3. The decimal form of $\frac{1}{20}$ is _____
4. The decimal form of $\frac{3}{8}$ is _____

Answer the following:

1. The length of a curtain is 2.865m and its breadth is 1.960. Sabina wants to put a lace around it. How much lace will she needed ?
2. An oil seller started with 16 litres 20 millilitres in the morning. By the evening he was left with 6 litres 800 millilitres. How much oil in litres did he sell ?

3. Represent 0.56 in a grid?
4. Write the decimal numbers 8.99, 8.099, 8.909 and 8.9 in ascending order.
5. During the night, temperature in a city is -2.5°C , and on another night -1.5°C . Which day is more colder?

Block : 19 Adding & Subtracting decimals

1. Add: $291.39 + 1899.992 + 2342 + 25.2568 + 53.7$
2. Gopal has Rs: 1012. He gave Rs:720.82 to his sister. How much money does Gopal have left?
3. Varsha has 23,599 paise and Manisha has 235 rupees 87 paise. Who has more money?
4. During the day, temperature in a city is 32.56°C , which drops to 25.78°C in the evening. What is the change in the temperature?

Block : 21 Introduction to Algebra

1. Identify the property used.
a) $x + y = y + x$ b) $p \times (a + b) = p \times a + p \times b$
2. Find the missing numbers in the following pattern:
(i) 11, 22, 33, 44, ____, ____, ____
(ii) 100, 85, 70, 55, ____, ____, ____
3. Deepak fits tyres on cars for a car company. (Assume 1 car has 4 tyres)
A) If there are 12 cars, how many tyres will he fit in all?
B) What is the rule to determine the number of tyres he will fit, given the number of cars?
C) How many tyres will he fit on 100 cars?
4. A cake recipe uses 3 cups of flour for one cake.
(a) If a baker wants to make 5 cakes, how many cups of flour would he needed?

(b) What is the formula to find the number of cups of flour ?

5. There are 35 bananas in a basket.

(a) Write a formula to find the total number of bananas in any number of baskets.

(b) How many bananas will be there in 8 baskets ?

Block : 23 Ratio

Fill in the blanks:-

1. $8 : 32 = 1 : \underline{\quad}$

2. $\underline{\quad} : 104 = 2 : 13$

3. $8 : 3 = \underline{\quad} : 27$

4. $200 : \underline{\quad} = 4 : 3$

5. $100 : 1000 = 1 : \underline{\quad}$

Answer the following:

1. Jays and vinay's combined age is 72. Ratio of their age is 4 : 5. Find vinay's age?
2. Vinod and Ravi share 104 books in the ratio 5 : 3. How many books does Ravi get?
3. There are 2907 people in a village. The ratio of adults to children is 2 : 1. How many adults are there in the village ?
4. Mr khan wants to divide Rs 25000 between his two children Sania and Akbar, in the ratio 4 : 6. what will the share for each child be ?
5. Find the ratios of the following:
 - i) 1 dozen bananas and 5 apples.
 - ii) 1.2 litre water and 200 ml of juice.

Block : 25 Perimeter

Fill in the blanks:-

1. To find the length of the lace around a bed sheet we will measure its _____.
2. The perimeter is the length of the _____ of a closed shape.

3. The perimeter of a square is _____
4. The perimeter of a rectangle is _____
5. The perimeter of a pentagon of side 4.5 cm is _____

Answer the following:

1. Find the perimeter of a rectangle with length 17 cm and breadth 11 cm.
2. Find the perimeter of a square of side 6 cm.
3. The perimeter of a rectangular card is 28 cm. If the length of the card is 8cm, find its breadth .
4. John runs around a rectangular park 5 times each day. The length of the park is 24m and the breadth is half of it. Find the distance John runs in a day.
5. Yukta wants a sew a border around a bed cover. How much border material will she need if the length of the bed cover is 175 cm and the breadth is 110 cm ?
If the cost of the border is Rs. 225 per meter, how much money will she spend ?

Block : 26 Area

Fill in the blanks:-

1. Area is the amount of _____ a closed shape occupies.
2. The area of a square whose length of its side 4.5cm is _____
3. The area of a rectangle whose length and breadth are respectively 12 cm and 8cm is _____
4. The area of a square is 144 sq.cm. Then its side is _____
5. The area of rectangular field is 56sq.m. If its length is 8m then breadth is _____

Answer the following:

1. The area of a rectangle is 56 sq cm and its breadth is 4cm. Find is length. Also find the perimeter of the rectangle.

2. The length of a play board is 24m, and its breadth is 18m. Find the cost of painting it if the painting cost is Rs: 115 per sq m.
3. A man runs around a square park and covers 1km in five rounds. What is the area of the park?
4. Teena wants to buy a carpet for her room measuring 18 m long and 13 m wide. The cost of the carpet per square meter is Rs: 175. How much money she will spend ?
5. How many rectangles of dimensions 5cm \times 4cm can be fit in a square whose side is 10 cm long ?

Block : 28 Construction of line segments

1. Draw a line segment AB =6 cm and make a copy of it using ruler and compass.
2. Draw a line segment of length 5.6cm and construct its perpendicular bisector.
3. Construct a perpendicular bisector CD to a line segment AB of length 8cm.
4. Draw a line segment of length 8cm and construct its perpendicular bisector.
5. Draw a line segment XY= 4.7. Extend this line to a point Z such that XZ is twice of XY.

Block : 29 Circles

Fill in the blanks:-

1. The length of the radius of a circle is _____ its diameter.
2. The line segment with one end on the circle and the other end on the centre is called _____
3. The length of the circumference of a circle is approximately _____ times its radius.
4. The length of the circumference of a circle is approximately _____ times its diameter.

5. Two or more circles with the same centre are called _____

Answer the following:

1. Construct two circles with lengths of their radii as 3cm and 4cm from the same center. Locate a point on the exterior of the smaller circle that lies in the interior of the larger circle.
2. The circumference of a circle is 45cm. What is the length of its diameter.
3. The circumference of a circle is 30cm. What is the length of its radius.
4. Yamini runs around a circular field once and covers a distance of 1200m while Farah across the center of the field twice. Who runs more and by how much?
5. Mili draws a circle of radius 6cm. If she increases the radius by 10 cm, what would be the approximate length of the circumference of the circle?

Block : 30 Construction of angles

Answer the following:

1. Draw an angle of 40° and make a copy of it using compass.
2. Draw an angle of 85° and construct its bisector.
3. Construct an angle of 60° and 30° using ruler and compass.
4. Draw an angle of 15° using ruler and compass.
5. Construct an angle of 60° and divide it into four equal parts

FIRST TERM PORTIONS

Block : 6 Factors & Multiples

Fill in the blanks:-

1. The sum of an even and odd number is always _____
2. The smallest even prime number is _____
3. The smallest composite number is _____

4. A number which has more than two factors is called _____
5. If 2 and 5 are factors, then _____ is their multiple.

Answer the following:-

1. Find the prime composite numbers between 1 and 20.
2. Write the first five multiples of 59.
3. 311 is a prime numbers. How can we find the other two prime numbers by just interchanging the digits ?
4. Write all factors of 36.
5. Express 36 as the sum of two odd prime numbers.

Block : 11 Triangles

Fill in the blanks:-

1. The triangle with sides 6cm, 6cm and 8cm is called _____
2. A triangle that has two sides equal and all its angles less than 90° is _____
3. A triangle that has unequal sides and one of its angle is 90° is _____
4. A triangle that has unequal sides and one of its angles is greater than 90° is called _____
5. The measure of the third angle if the two angles are 90° and 42° is _____

Answer the following:-

1. Draw a triangle with sides 5cm, 6cm and 7cm.
2. Draw a triangle ABC. Draw a median BE and altitude BD in it.
3. How many medians can a triangle have ?
4. How many altitudes can a triangle have ?
5. Define equilateral, isosceles and scalene triangle.

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