**Chavara Public School, Walwadi , Dhule**

 **Grade- VI C.B.S.E**

 **Term -II 2017-18**

 **Subject- Maths**

 **Date:- 00/03/18**  **Marks:- 80**

**Section A**

QI) Choose the best answer:- M-6

1. The instrument used to measure an angle is \_\_\_\_\_\_\_\_\_.
2. ruler b) protractor c) compass
3. Which of the following letter does not have any line of symmetry?
4. M b) S c) H
5. There are 25 boys and 20 girls in a class. The ratio of the number of girls to the total students in the class is \_\_\_\_\_\_\_\_\_\_.
6. 9:4 b) 9:5 c) 4:9
7. Which of the following equations has x=3 as a solution?
8. x+2=5 b) x-2=0 c) x+3=6
9. The measure of region enclosed by a plane closed figure is called its \_\_\_\_\_\_
10. Perimeter b) Area c) circumference
11. Number of natural number lying between -6 and 6 is \_\_\_\_\_\_\_\_.
12. 10 b) 12 c) 5

QII) Fill in the blanks:- M-6

1. 12 + =0
2. 3$\frac{2}{5}$ is a \_\_\_\_\_\_\_\_\_ fraction.
3. 9 + $\frac{2}{10}$ + $\frac{3}{100}$ = \_\_\_\_\_\_\_\_\_ ( in decimal)
4. The tally mark for represent the number seven is \_\_\_\_\_\_\_\_\_\_\_.
5. The perimeter of square with side 15cm is \_\_\_\_\_\_\_\_\_\_\_.
6. If 5x + 10 = 25, then the value of x is \_\_\_\_\_\_\_\_.

QIII) True or false:- M-5

1. 3x +1 < 5 is an equation.
2. 12:30 = 8:20
3. A regular pentagon has 5 lines of symmetry.
4. It is possible to draw 2 bisector of an angle.
5. If m is a whole number, then 3m denotes a multiple of 3.

QIV) Match the following. M-5

1. A sign used in an equation. a) proper fraction
2. Perimeter of equilateral with side 3cm. b) 2
3. $\frac{3}{\begin{array}{c}5 \end{array}}$ c) =
4. The greatest negative integer d) 9cm
5. No of lines of symmetry in rectangle. e) –

 f) <

 **Section B**

QI) Solve the following:- M-12

1. If Rani’s present age is x year, then what is

 a) Her age after 5 years

 b) her grandfather is 5 years more than 4 times her age

 2) Find the ratio of 500ml to 2 l

 3) Sketch a rough figure of a triangle with one line of symmetry and 3 lines of

 symmetry. Also name the triangle.

 4) Construct a Perpendicualar to the line AB= 7cm with point ‘P’ on the line.

 5) Write any 4 Alphabet which is having vertical line of symmetry ( Show it)

 6) Divide Rs20 between arun and mala in the ratio of 3:2.

QII) Solve the following. M-12

1. Construct 900 with ruler and compass and bisect it.
2. Give the expression for:

 a) P divided by 5

1. 5 added to –m
2. Y is multiplied by 5 and the result is subtracted from 16
3. The area of a rectangular garden 50m long is 300sq.m. find the breadth and perimeter of the garden.
4. Prepare a pictograph for the given data.

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| --- | --- | --- | --- | --- | --- | --- |
| Class | V | VI | VII | VIII | IX | X |
| No. of student | 80 | 120 | 90 | 40 | 60 | 30 |

1. Aakash has Rs 19.30. he purchased a pen for Rs 11.50. find the money left with him.
2. Add:- 4 $\frac{2}{3}$ + 3 $\frac{1}{4}$

**Section C**

QI) Solve any 6 of the following. M-18

1. Find the sum:-

37 + ( -2) + ( -65 ) +5

1. A piece of wire$ \frac{7}{8}$ m long broke into 2 pieces. One piece was $\frac{1}{4}$ long. How long is the other piece?
2. Express:-

a) As Rupees :- 25 p

1. As meter : 9m 7cm
2. As kg:- 26 kg
3. What is the cost of tiling a rectangular plot of land 200m wide and 500m long at the rate of Rs 80 per sq.m
4. Draw a circle with center 0 of radius 3cm. draw any 2 of its chords. Construct a perpendicular bisector of these chord. Where do they meet?
5. Draw an angle of measure 1350 by using ruler and compass. And also bisect it.
6. Cost of 5kg of rice is Rs60.
7. What will be the cost of 9kg of rice?
8. What quantity of rice can be purchased for Rs 240.

**Section D**

QI) Solve any 4 of the following:- M-16

1. Using number line :-
2. ( -2) + 8 + ( -4)
3. 6 more than -5
4. Which number will you reach if we move 5 numbers to the left of 2?
5. If we are at -6, in which direction should we move to reach -1?
6. a) Find the missing term:- $\frac{45}{60}$ = $\frac{15}{}$ = $\frac{}{4}$
7. Write in simplest form :- i) $\frac{660}{990}$ ii) $\frac{7}{28}$
8. a) Add: 0.75 + 10.425 +12

b) Subtract 13.345 from 15

 4) a) Write the general rule for the given pattern:

1. Pick out the solution from the given value and also prove that the other

values do not satisfied the equation.

x + 4 = 2 ( -2 , 0 , 2 , 4)

 5) In a college, out of 4320, students 2300 are girls.

 Find :- a) No boys b) Ratio of girls to boys

 c) Ratio of boys to total students d) Total students to girls

 6) a) Construct a line AB = 8cm and divide it into 4 equal parts.

 b) Construct 1400 by protractor and bisect it.

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