INDIAN SCHOOL SOHAR
TERM II EXAMINATION 2019-20
MATHEMATICS

CLASS: VI   **MAX. MARKS: 80**
DATE: 03/03/2020   **DURATION: 3 HOURS**

General Instructions:

- All questions are compulsory.
- Check whether the question paper contains 5 printed pages.
- The question paper consists of 40 questions divided into four sections A, B, C & D.
- Section A comprises 20 questions of 1 mark each, Section B comprises 6 questions of 2 marks each, Section C comprises 8 questions of 3 marks each & Section D comprises 6 questions of 4 marks each.
- Do the calculations in the working column. Give necessary formulae and steps wherever required.

SECTION: A

(Q1.to Q10.) are multiple choice questions. Select the appropriate answer from the given option.

1. What is the angle name for half a revolution?
   (A) right angle   (B) reflex angle   (C) straight angle   (D) acute angle

2. The triangular shaped instrument in a geometry box is a:
   (A) Protractor   (B) compasses   (C) set square   (D) divider

3. The value of $\dfrac{231}{1000}$ is:
   (A) 0.231   (B) 2.31   (C) 231   (D)23.1

4. Which of the following is the proper fraction?
   (A) $\dfrac{5}{7}$ (B) $\dfrac{7}{5}$ (C) $\dfrac{15}{7}$ (D) $1\dfrac{5}{7}$

5. The successor of (-190) is…………..
   (A) (-191)   (B) (-189)   (C) 189   (D) 191

6. The algebraic expression for 7 added to p is:
   (A) $\dfrac{p}{7}$ (B) $(p-7)$ (C) $(p+7)$ (D) $(7\times p)$

7. How many terms are there in a proportion?
   (A) 4   (B) 3   (C) 2   (D) 5

8. Find the perimeter of the triangle whose sides are 7cm, 8cm and 4cm long.
   (A) 20cm   (B) 19cm   (C) 18cm   (D) 21cm

9. The additive inverse of 15 is:
   (A) (-15)   (B) 15   (C) 0   (D) 1

10. The ratio of 500gm to 2 kg is:
    (A) 1:4   (B) 4:1   (C) 5:10   (D) 10:5   **(PTO)**

(Q11. to Q15.) Fill in the blanks.

11. A triangle with all the sides equal is called an ………………….triangle.

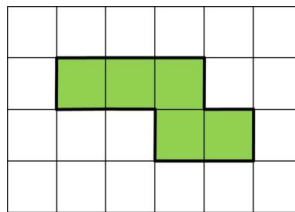12. The longest chord of a circle is called its …………………

OR

The radius of a circle is 5 cm, the diameter of this circle is …………..

13. The value of x which satisfies the equation $5x = 35$ is …………..

14. The predecessor of (-420) is ………

15. The simplest form of $\dfrac{9}{54}$ is………….

(Q16. to Q20.)Answer the following questions.

16. Write all the integers lying between (-5) and 0.

17. Express it as mixed fraction: $\dfrac{25}{4}$.

18. Subtract: 25.34 – 8.21

19. Express 8kg 640gm in kg.

20. Find the area of the following figure by counting the shaded squares: (1 shaded square = 1 sq.cm)

OR

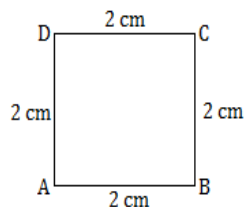Find the perimeter of an equilateral triangle whose side is 9cm.

SECTION: B

21. Find four equivalent fractions of: $\dfrac{5}{7}$.

OR

Find the value of : $\dfrac{2}{3} + \dfrac{1}{4} + \dfrac{1}{2}$.

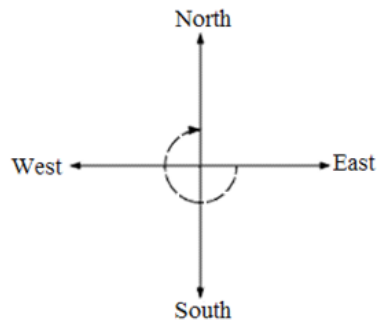22. Find the perimeter of the following figure:

OR

The perimeter of a regular pentagon is 100cm. What will be the length of its each side?   **(PTO)**

23. Write the middle terms and extreme terms of: 16 : 24 :: 20 : 30   and determine the ratios are in proportion or not.
24. Add: 92.5, 16.542 and 25.
25. Find the sum: 40 + (-12) + (-25) + 24.
26. Draw a circle of radius 4 cm and mark point A in the exterior of the circle and point B in the interior of the circle.
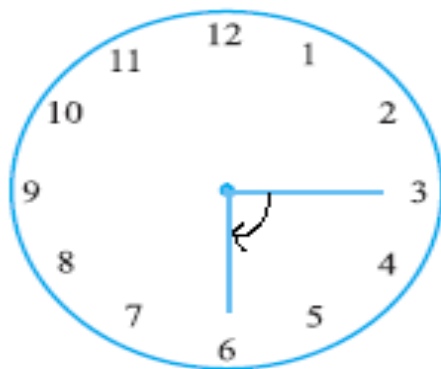

SECTION: C

27. (A) What part of a revolution have you turned through if you stand facing east and turn clockwise to face north?
    (B) How many right angles do you make if you stand facing east and turn clockwise to face north?
    (C) What is the angle name for the part of the revolution it makes?

OR

(A) What fraction of a clockwise revolution does the hour hand of clock turn through when it goes from

   3 to 6?

(B) Find the number of right angles turned through by the hour hand of a clock when it goes from 3 to 6.

(C) What is the angle name for the part of the revolution it makes?

28. Reeta bought $2\frac{5}{7}$ kg of sugar whereas Sunita bought $5\frac{1}{2}$ kg of sugar. Find the total amount of sugar bought by both of them.
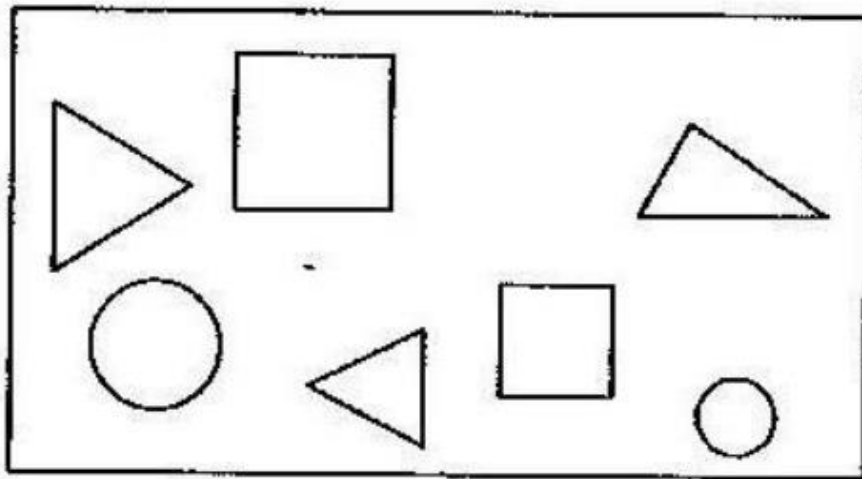
OR

$$ADD: 1\frac{1}{6} + 2\frac{1}{12} + 3\frac{3}{4}$$

29. Amit got Rs.100 from his father. He spent Rs.32.5 on shopping and Rs. 17 as bus fare. How many rupees are left with him?

30. Find the area of square plot if its perimeter is 320m.

31. Complete the table and by inspection of the table find the solution to the equation $x + 10 = 16$.

x					
$x + 10$					

32. See the figure and find the ratio of:
    A. Number of triangles to the number of circles.
    B. Number of squares to all the figures inside the rectangle.
    C. Number of circles to all the figures inside the rectangle.

33. Draw a circle with Centre C and radius 4cm. Draw its diameter AB. Construct the perpendicular bisector of the diameter AB.

OR

Construct an angle 60^0 with ruler and compasses and construct its angle bisector.

34. Use the number line and add the integers: (-2) + 6.

(PTO)

SECTION D

35. Shaina pays RS. 25000 as rent for 5 months. How much does she has to pay for a whole year, if the rent per month remains same?

OR

There are 30 girls and 15 boys in a class. Write each ratio in the simplest form:
   A. what is the ratio of number of girls to the number of boys?
   B. what is the ratio of number of boys to the number of girls?
   C. what is the ratio of number of girls to the total number of students in the class?
   D. what is the ratio of the total number of students in the class to the number of boys?

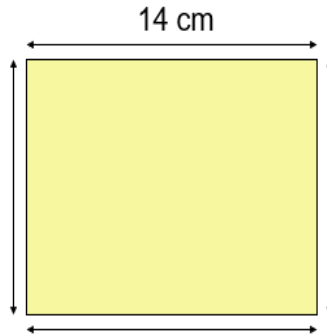36. Simplify $5\dfrac{2}{3} - 4\dfrac{1}{4} + 3\dfrac{1}{6}$

37. Solve the following:
   A. Add: 5kg 40g, 2kg 20g and 10kg.
   B. Subtract: 5km 52m from 8km 347m.

38. How many marble tiles whose length and breadth are 40 cm and 25 cm respectively will be needed to fit in a rectangular region whose length and breadth are 4m and 5m respectively?

OR

Find the area and the perimeter of the square given below:

39. A. Give the expressions for the following statement:
   (i) y multiplied by 5 and then 7 added to the product.
   (ii) 10 subtracted from m
   (iii) 20 added to n
   B.   Pick out the solutions from the values given in the bracket next to the equation given below:
       $p - 5 = 5$ (0, 10, 5, -5)

40. Raju purchases 14 pens for Rs.196 and Manish purchases 12 pens for Rs. 240. Can you say who purchased the pens in cheaper rate?

*********************THE END*************************