Periodic Test (21 July 2017)
Class-VIII
Sub: Mathematics (Set - B)

Time: Marks: 50
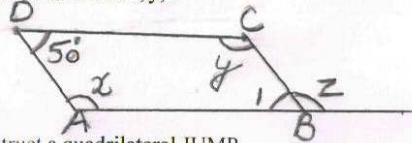
Section-A (2 marks each)

Q1 to 6 each carry 2 marks.

1. Multipy $\frac{6}{13}$ by the reciprocal of $\frac{-7}{16}$.

2. Solve $7x - 9 = 16$

3. How many sides does a regular polygon have if the measure of an exterior angle is 24°?

4. Construct the square READ with RE=5.1cm

5. The measure of two adjacent angles of a parallelogram are in ratio 3:2. Find the measure of each of angles of parallelogram.

6.a) Write the additive inverse of $\frac{19}{-6}$.

b) Find the multiplicative inverse of $\frac{-13}{19}$

Section-B (3 marks each)

Q7 to 12 carry 3 marks.

7. Three consecutive integers add up to 51. What are these integers?

8. Consider the following parallelogram.
   Find the unknowns x, y, z

9. Construct a quadrilateral JUMP
   JU=3.5cm, UM=4cm, MP=5cm, PJ=4.5cm, PU=6.5cm

Periodic Test (21 July 2017)
Class-VIII
Sub: Mathematics (Set - A)

Time: Marks: 50

Section-A (2 marks each)

**Q1 to 6 each carry 2 marks.**

1. Solve $14y - 8 = 13$

2. Is 0.3 the multiplicative inverse of $3\frac{1}{3}$? Why or why not?

3. Find the measure of each exterior angle of a regular polygon of 15 sides.

4. Construct a rectangle with adjacent sides of lengths 5cm and 4cm.

5. Two adjacent angles of a parallelogram have equal measure. Find the measure of each of the angles of the parallelogram.

6.a) Write the additive inverse of $\frac{-6}{-5}$

b) Write the rational number that does not have a reciprocal.

Section-B (3 marks each)

Q7 to 12 carry 3 marks.

7. The ages of Rahul and Haroon are in the ratio 5:7. Four years later the sum of their ages will be 56 years. What are their present ages?

8. Consider the following parallelogram.
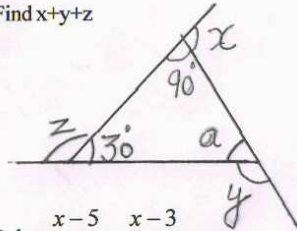   Find the unknowns x, y, z
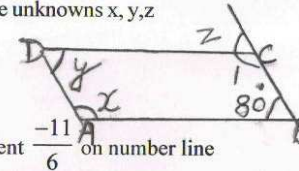
9.a) Represent $\frac{-11}{6}$ on number line

b) Write five rational numbers which are smaller than 3.

10. Construct the parallelogram MORE in which

OR = 6cm, RE=4.5cm, EO=7.5cm

11. Find x+y+z

12. Solve $\dfrac{x-5}{3} = \dfrac{x-3}{5}$

Section - C (4 marks each)

Q13 to 17 each carry 4 marks

13. Using appropriate properties. Find

$$\dfrac{-2}{3} \times \dfrac{3}{5} + \dfrac{5}{2} - \dfrac{3}{5} \times \dfrac{1}{6}$$
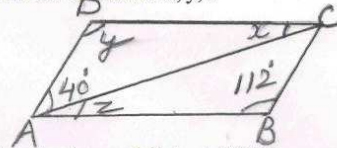
14. Sum of the digits of a two digit number is 9. When we interchange the digits, it is found that the resulting new number is greater than the original number by 27. What is the two digit number?

15. Construct a quadrilateral DEAR. DE=4cm, EA=5cm, AR=4.5cm

$\angle E = 60^0$ $\angle A = 90^0$

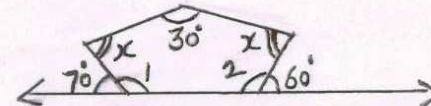16. Consider the following parallelogram.

Find the unknowns x, y, z

17. Construct a quadrilateral GOLD

OL=7.5cm, GL=6cm, GD=6cm, LD=5cm, OD=10cm

10. Find six rational numbers between $\dfrac{-3}{2}$ and $\dfrac{5}{3}$

11. Solve and check $\dfrac{3y+4}{2-6y} = \dfrac{-2}{5}$

12. Find the angle measure x

Section - C (4 marks each)

Q13 to 17 each carry 4 marks
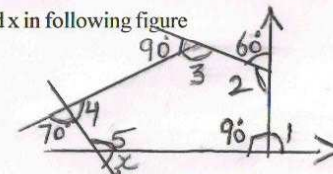
13. Using appropriate properties. Find

$$\dfrac{7}{5} \times \left(\dfrac{-3}{12}\right) + \dfrac{7}{5} \times \dfrac{5}{12}$$

14. Half of a herd of deer are grazing in the field and three fourths of the remaining are playing nearby. The rest 9 are drinking water from the pond. Find the number of deer in herd?

15. Construct the Rhombus BEND

BN=5.6cm   DE=6.5cm

16. Find x in following figure

17. Construct a quadrilateral PLAN

PL=4cm, LA=6.5cm, $\angle P = 90^0$, $\angle A = 110^0$, $\angle N = 85^0$