APEEJAY SCHOOL, SHEIKH SARAI-I

PERIODIC ASSESSMENT-II, 2017-18

26

CLASS-VIII

MATHEMATICS

Time allowed : 3 hrs. *M.M. : 80*

General Instructions :

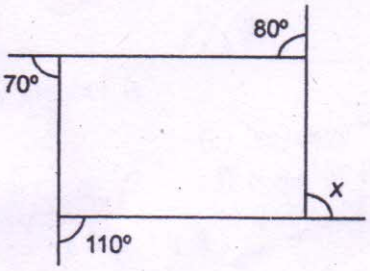
Q. 1 – Q. 10 are of 2 marks each.

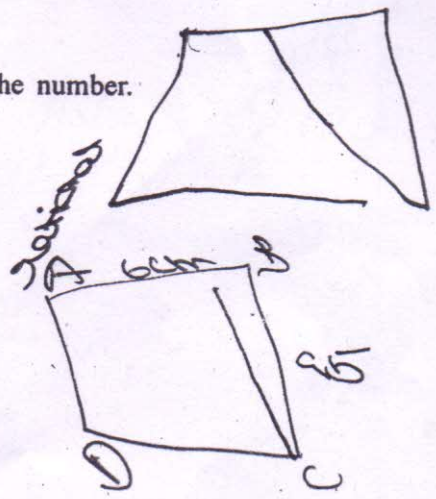
Q. 11 – Q. 20 are of 3 marks each.

Q. 21 – Q. 24 are of 5 marks each.

Q. 25 – Q. 34 are of 1 mark each.

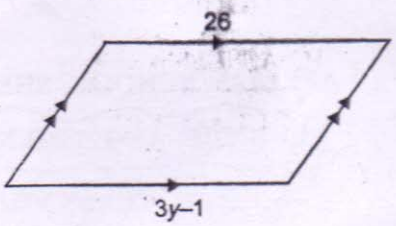
1. A man sold an article for ₹ 805 and gained 15% on it. Find the C.P. of the article.
2. Can you construct a quadrilateral $ABCD, AB = 6$ cm, $BC = 9.5$ cm, $\angle A = 95°$, $\angle B = 150°$, $\angle C = 140°$? Justify you answer.
3. Area of a square plot is 2304 m^2. Find the side of the square.
4. Find the cube root of 512.
5. Find four rotational number between $\frac{-2}{5}$ and $\frac{1}{2}$.
6. Arrange is ascending order $\frac{4}{5}, \frac{-3}{2}, \frac{1}{-3}, \frac{-1}{-4}$.
7. A number when added to twice of $-\frac{7}{3}$ gives $\frac{3}{7}$, find the number.
8. Solve : $17 + 6p = 9$.
9. Find x in the figure.





P.T.O.

10. Find y in the figure (if it is a parallelogram).



11. The sum of three consecutive multiples of 8 is 888. Find the multiples.

12. Represent the following rational numbers on the number line :

(a) $-1/7$ (b) $18/11$

13. Simplify using the distributive property.

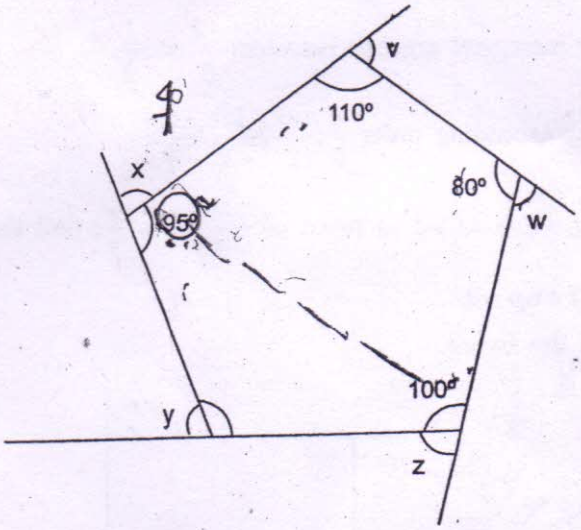
$$-\frac{4}{5}\times\left(\frac{-5}{7}+\frac{2}{9}\right)$$

14. Find the smallest number by which 392 should be multiplied to make it a perfect cube. Find the new number.

15. Parikshit makes a cuboid of plasticine of sides 5 cm, 2 cm and 5 cm. How many such cuboids are needed to form a cube ?

16. Find the square root of 87.4225.

17. Find $x+y+z+w+v$ after finding their values.



18. The opposite angles of a parallelogram are $(150 - 3x)°$ and $(2x - 50)°$. Find the measures of all the angles.

19. Find the compound interest on Rs. 12,800 for 2 years at 10% per annum compounded annually.

20. Construct a square with each side measuring 4.5 cm.

21. A number consists of two digits whose sum is 9. If 9 is subtracted from the number, the digit interchange their places. Find the number.

22. Find the greatest number of 6 digits which is a perfect square.

23. A dealer buys an article for Rs. 380. At what price must he mark it so that after allowing a discount of 5%, he still makes a profit of 25%.

24. Construct a quadrilateral plan where

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

MENTAL MATH

25. If $\frac{x}{5} = 3$, then $x = ?$

(a) 3 (b) 5
(c) 15 (d) –15

26. If you add 20 to me, I become thrice of myself. Find me (I am a number)

(a) 20 (b) 30
(c) 10 (d) 40

27. Every fraction is a :

(a) Whole number (b) Natural number
(c) Rational number (d) Zero

28. Reciprocal of –4/9 is :

(a) 4/9 (b) $-\frac{9}{4}$
(c) $\frac{9}{4}$ (d) $\frac{4}{9}$

29. The cube of a negative number is :

(a) Positive (b) Negative
(c) Zero (d) None of these

30. Which of the following is not a perfect square ?

(a) 7056 (b) 3969

(c) 5478 (d) 4624

31. Every square is a :

(a) Rhombus (b) Rectangle

(c) Parallelogram (d) All options (a), (b) (c)

32. In which quadrilateral are diagonals equal ?

(a) Rhombus (b) Kite

(c) Rectangle (d) None of these

33. Express $\frac{3}{5}$ as a percentage :

(a) 30% (b) 40%

(c) 45% (d) 60%

34. 40% of ? = 240

(a) 60 (b) 600

(c) 6000 (d) 960