H.S

First Terminal Examination 2015 - 2016

Class – VIII

Subject – Mathematics

Time : 3 Hrs. **Max. Mark : 80**

General Instructions :

(a) This paper consists of 4 sections :

Section A	Q. 1 to Q. 10	1 marks each	=	10 Marks
Section B	Q. 11 to Q. 18	2 marks each	=	16 Marks
Section C	Q. 19 to Q. 28	3 marks each	=	30 Marks
Section D	Q. 29 to Q. 34	4 marks each	=	24 Marks

(b) Attempt all questions.

(c) Do not write anything on the question paper.

(d) Draw column for the rough work.

(e) Read each question carefully.

(f) All the questions must be correctly numbered as in the question paper and written in the answer sheet provided to you.

(g) Draw neat figures.

SECTION – 'A' (1×10=10)

1. Additive inverse of $\frac{3}{11}$ is ..... .

2. $\frac{5}{11} \times \frac{22}{15}$ = ...

3. If $6x - 1 = 3$ then x = ...

4. Find the number of sides of a regular polygon if the measure of an exterior angle is 24°.

5. If $\frac{1}{5}x = 2$, then x = ...

6. When the measures of 3 angles of a quadrilateral are 45°, 75° and 110°, the fourth angle equals ..... .

7. Probability of getting a 4 on rolling a dice is ..... .

8. $33\frac{1}{3}$ % of 600 = ...

9. 8 hours in a day = ... %.

10. Ratio 1 : 10 = ... %.

SECTION – 'B' (2×8=16)

11. Represent $\frac{9}{7}$ and $\frac{-11}{5}$ on two number lines.

12. If $4(3x - 3) = 2(3x - 5)$, what is the value of x ?

13. Find the measure of each interior angle of a regular polygon of 9 sides.

14. Construct a quadrilateral ABCD in which AB = 3.5 cm, BC = 5.5 cm, CD = 6 cm, DA = 6.5 cm and AC = 7.5 cm.

15. From a pack of 52 cards, a card is drawn at random. What is the probability of getting a card with number 9 ?

16. A bag contains 4 green and 6 red balls. A ball is picked at random. What is the probability that it will be red ?

17. A Sofa set marked at ₹ 55,000 is offered at 20% discount. Find the net selling price.

18. Raman has got a 10% raise in his salary. If his new salary is ₹ 1,54,000, find his original salary.

SECTION – 'C' (3×10=30)

19. Find 3 rational numbers between $\frac{4}{3}$ and $\frac{-3}{2}$.

20. Simplify using distributive property.

$$\frac{7}{11} \times \frac{5}{6} - \frac{7}{11} \times \frac{-2}{3}$$

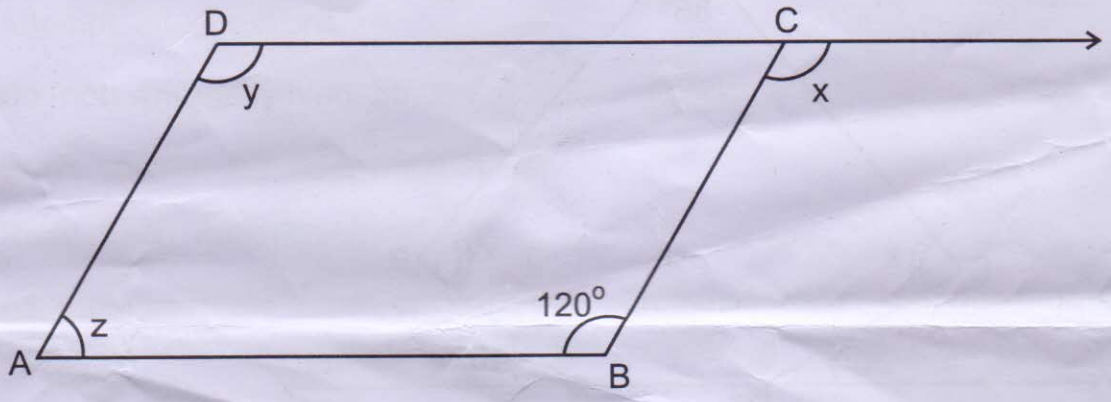
21. Present ages of Rama and Shyama are in the ratio 7:10. However after 8 years, the ratio will be 11:14. Find their present ages.

22. Solve the equation :

$$\frac{3x - 5}{4x + 6} = \frac{-2}{3}$$

23. A quadrilateral has two adjacent angles of measures 115° and 45° each and the other two angles are equal. Find the measure of each of the equal angles.

24. Find the values of x, y and z in the parallelogram given below :



25. Construct a square with side 4 cm.

26. The weights (in kg) of 30 employees of a company are as under :

48	65	51	77	60	68
50	46	62	53	62	52
54	70	63	67	56	62
60	55	58	59	58	73
62	68	71	69	75	75

Prepare a histogram for the above data taking class size of 5.

27. Rajan bought a tape recorder for ₹ 15,500. He spent ₹ 500 on its repairs and then sold it for a profit of 15%. Find the selling price of the tape recorder.

28. Out of 1800 oranges, 5% were found rotten and 10% of the remaining were sold. How many oranges are left ?

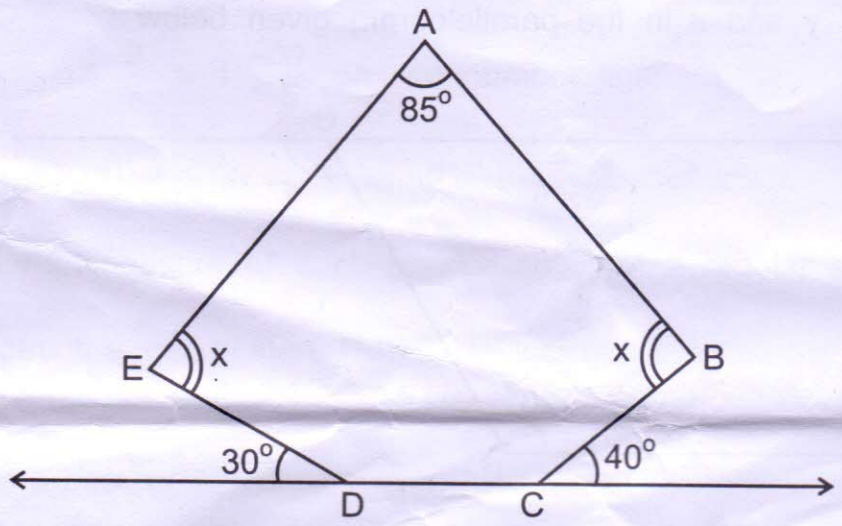
SECTION – 'D' (4×6=24)

29. Add the following using suitable rearrangement :

$$\frac{-8}{11} + \frac{1}{5} - \frac{7}{10} + \frac{4}{22}$$

30. The sum of three consecutive multiples of 11 is 165. Find the multiples.

31. Find the value of x in the given figure given below :



32. The two diagonals of a rhombus are of lengths 8 cm and 6 cm. Construct a figure for the same.

33. A worker spent his monthly income of ₹ 14,400 as given below :

Item	Rent	Food	Education	Transport	Miscellaneous
Amount Spent	2400	8000	800	1200	2000

Draw a pie chart for the above data.

34. Find the Compound Interest on ₹ 15,625 at 16% per annum for 9 months if the interest is compounded quarterly.

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