INTERNATIONAL INDIAN SCHOOL – DAMMAM
SUMMATIVE ASSESSMENT – 1, SEPTEMBER-2012
SUBJECT: MATHEMATICS

CLASS: VII

SET – A

MAX MARKS: 90
TIME: 3 HRS

SECTION – A

(1X8 = 8 MARKS)

Choose the correct answer

1. $-2 \div \frac{1}{2}$

   a) -1 b) -4 c) 4   d) $-\frac{1}{4}$

2. The angle which is equal to its supplement is -----.

   a) $90°$ b) $45°$ c) $180°$ d) $360°$

3. 18.5 X 0.001

   a) 0.00185   b) 0.1850   c) 0.0185   d) 18500

4. $-\frac{2}{11}$ X ---- = 1

   a) $\frac{2}{11}$ b) $-\frac{11}{2}$ c) $\frac{2}{11}$ d) $-\frac{11}{2}$

5. Linear pair is a pair of angles which are
   a) alternate interior angles.
   b) vertically opposite angles
   c) adjacent and supplementary
   d) adjacent and complementary

6) Which of the following statement is true?
   a) SP=P+CP   b) SP=L+CP   c) CP=P–CP   d) CP= L–SP

7. Find the pair of integers whose sum is –10.
   a) (–3, 7)   b) (–6, –4)   c) (1, –10)   d) (1, –9)

8. Value of $\frac{7}{8} - \frac{3}{4}$

   a) $\frac{4}{8}$ b) $\frac{1}{8}$ c) $-\frac{1}{8}$ d) $\frac{4}{4}$

(1)

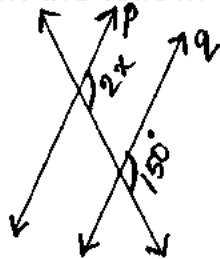9. Mark $-\frac{4}{5}$ and $\frac{3}{5}$ on a number line.

10. Find the value of $\frac{1}{8} \div \frac{3}{4}$.

11. The price of petrol per litre is increased from Rs.75 to Rs.105 in the year 2011.Find the increase percentage on its price.

OR

11. In a class out of 35 students, 7 are absent. What percent of the students are absent?

12. In the following figure p||q.Find the value of x.

13. Simplify $(- 6 + 9) \div (-2 -1)$.

14. How much less is 45kg than 181.5kg?

SECTION – C   (3X10=30MARKS)

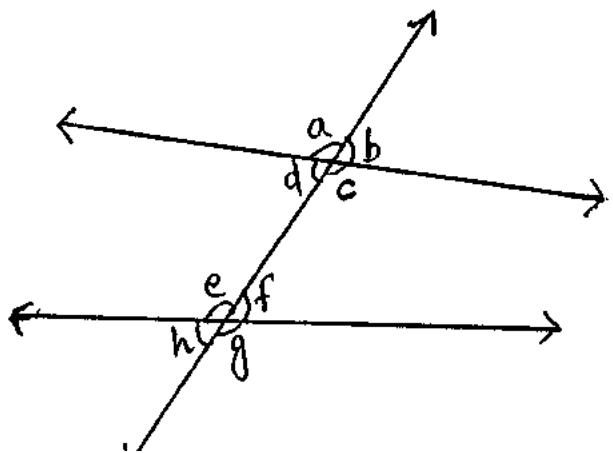15. Construct an equilateral triangle of side 5.5cm.

16. Find the product using suitable properties. Also mention the property used.
    $123 \times (- 45) - 123 \times 55$

17. Find four rational numbers between $-\frac{2}{3}$ and $-\frac{1}{4}$.

lcm = L2

18. Identify

    i) 2 pairs of alternate interior angles.
    ii) 2 pairs of interior angles on the same side of the transversal.
    iii) 2pairs of vertically opposite angles.

(2)

19. Salim sold his TV for Rs.10240 thereby suffering a loss of 20%, find the cost price of the TV.

20. The difference in the measures of two complementary angles is 30^0 Find the measures of the angles.

21. A train covers 425.25km in 4.5 hours. What is the distance covered by the train in 1hour?

22. Construct $\triangle$XYZ, right angled at Z, given that XY=10cm and XZ=6cm.

OR

22. Construct an isosceles triangle in which the lengths of each of its equal sides Is 6.5cm and the angle between them is 120^0

23. $15\frac{3}{4} \div 5\frac{5}{8}$ $\mathcal{R} \; \mathcal{U} \; \mathcal{M}$

24. An item is bought for Rs.6000 and sold it for Rs.5700.Find its gain or loss percentage.
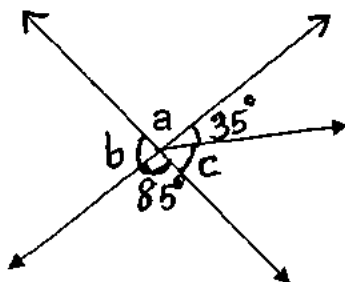
SECTION – D   (4X10=40MARKS)

25. A merchant borrowed Rs.25000 from a money lender at 12% per annum. Find the interest and the amount he has to pay after 3 years.

26. Raju bought a rectangular plot of length $92\frac{1}{2}$ m and of breadth $71\frac{1}{4}$ m. Find its perimeter.

OR

26. Manu bought 50m 25cm white cloth and 75m 50cm black cloth for his tailoring shop. Sunil bought 85m 70cm white cloth and 45m 50cm red cloth for his shop. Who bought more cloth?

27. Find a,b and c.

28. Arrange the following rational numbers in ascending order

$$-\frac{3}{4}, \; -3, \; -\frac{5}{6}, \; -\frac{2}{3}$$ $\mathcal{R} \; \mathcal{U} \; \mathcal{M} \; /2$

29. i) A plane is flying at the height of 4500m above sea level. At a particular point it is exactly above a submarine floating 700m below the sea level. What is the vertical distance between them?

   ii) Find the product using suitable property
   $$-8 \times -9999 \times 125$$

30. In a class test containing 15 questions. 4marks are given for every correct answer and -2 marks are given for every incorrect answer.

   i) Teena attempts all questions, but only 10 of her answers are correct. What is her total score?

   ii) One of her friends scores -4 marks in this test, though she has got 8 correct answers. How many questions has she attempted incorrectly?

31. i) Find $(-5\frac{5}{7}) - (-\frac{3}{5})$

   ii) Find the standard form of $\dfrac{36}{-24}$

32. Draw a line AB of length 7.5cm and take a point C outside it. Through C, draw a line parallel to AB, using ruler and compasses.

33. i) Chalk contains Calcium, Carbon and Oxygen in the ratio 10:3:12. Find the percentage of Calcium in chalk.
   ii) If in a stick of chalk, Calcium is 6gm, what is the weight of the chalk stick?

34. Construct $\triangle LMN$ in which $\angle M=100^0$, $\angle N=20^0$ and LM=8cm.