



## **SESSION 2013 - 14 UNIT TEST I MATHEMATICS** SET B

Class: VIII Max Marks: 40

Date: 6.5.2013 Time Allowed: 1 1/2 hour

## **GENERAL INSTRUCTIONS**

- This question paper has 13 questions and 2 printed pages.
- All the questions are compulsory.
- All the parts of Q 1 carry 1 mark each, Qs 2-7 carry 2 marks each, Qs 8-11 carry 3 marks each and Qs 12 & 13 carry 4 marks each.

1. (a) If 
$$\frac{-20}{25} = \frac{28}{x}$$
, then  $x = _____$ .

- -35 (ii) -20 (iii) (iv) 20 (i)
- Reciprocal of  $\frac{2}{9}$  is \_\_\_\_\_.

  (i)  $\frac{2}{9}$  (ii)  $\frac{9}{3}$  (iii)  $\frac{-9}{3}$ (b) 1 None of these

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- Multiplicative identity of any rational number  $\frac{p}{r}$  is \_\_\_\_\_\_. (c) 1 -1 (ii) 0 (iv)
- Which of the following statements is not true? (d)
  - 5 is a rational number.
  - Additive inverse of  $\frac{1}{3}$  is  $\frac{-1}{3}$ .
  - $\frac{8}{0}$  is a rational number. (iii)
  - The reciprocal of  $\left(\frac{-8}{7}\right)$  is  $\left(\frac{-7}{2}\right)$ . (iv)
- Multiplicative inverse of any rational number  $\frac{a}{b}$  is \_\_\_\_\_. (e)
  - $\frac{-a}{b}$  (ii)  $\frac{b}{a}$  (iii)  $\frac{-b}{a}$  (iv) 0
- If 2x 2 = x + 4, then x equals \_\_\_ (f) (iii) (iv) (ii) -6 1
- If  $\frac{x}{0.3} = 3.3$  then 100x is equal to \_\_\_\_\_. (g) 1 300 990 (iv)
- Three consecutive multiples of 7 whose sum is 777 is \_\_\_\_\_\_. (h)
  - (i) 245,259,273 (ii) 252,259,266
  - (iii) 252,266,273 (iv) 238,259,280

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CBSE sample papers, Question papers, Notes for Class 6 to 12  $\frac{\text{NocertSlelp}_3}{\text{NocertHelp.com}}$ . Verify the commutative property for addition of  $\left(\frac{8}{9}\right)$  and  $\frac{11}{-3}$ .

4. Verify that  $-(-x) = x \int or x = \frac{-5}{13}$ .

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- 5. Solve 4(2x-5)+17=29.
- 6. Solve  $\frac{3x+5}{2x+7} = 4$ .
- 7. If  $\frac{7}{2}$  of a number is 13 more than  $\frac{1}{6}$  of the number, find the number.
- 8. Verify  $\left[\left(\frac{-8}{9}\right)X\left(\frac{-1}{5}\right)\right] + \left[\left(\frac{-8}{9}\right)X\left(\frac{-3}{7}\right)\right] = \left(\frac{-8}{9}\right)X\left[\left(\frac{-1}{5}\right) + \left(\frac{-3}{7}\right)\right]$  and name the property used.
- 9. Find five rational numbers between  $\frac{-1}{3}$  and  $\frac{1}{3}$ .
- 10. Solve  $x \frac{2x+8}{3} = \frac{1}{4} \left[ x \frac{2-x}{6} \right] 3$ .
- 11. Four fifth of a number is more than three fourth of the number by 4. Find the number.
- 12. The length of a rectangle exceeds its breadth by 4cm. If the length and the breadth are each increased by 3 cm, the area of the new rectangle will be 81 cm<sup>2</sup> more than that of the given rectangle. Find the length and breadth of the given rectangle.
- 13. (a) Rashmi enjoys helping out small children with their studies. One day she asks them to find a number which when multiplied by  $\frac{-1}{6}$  gives a product as  $\frac{-17}{9}$ .
  - (i) Find the number she gave to the children.
  - (ii) Rashmi does not charge any fee from the children. Mention any two values displayed by her.
  - displayed by her. (b) Represent  $-\frac{5}{8}$  on a number line.