

EduSahara™ Learning Center Assignment**Grade : Class X, SSC****Chapter : Real Numbers****Name : Properties of Real Numbers**

1. Which of the following are true?

- a) Division is closed under real numbers
- b) Subtraction is closed under real numbers
- c) Addition is closed under real numbers
- d) Multiplication is closed under real numbers

(i) {a,c} (ii) {a,b} (iii) {a,b,c} (iv) {a,d} (v) {b,c,d}

2. The additive inverse of $\frac{8}{3}$ is

- (i) $\frac{3}{8}$ (ii) 0 (iii) $(-3\frac{2}{3})$ (iv) $\frac{3}{-8}$ (v) $(-\frac{8}{3})$

3. The multiplicative inverse of $(-\frac{3}{7})$ is

- (i) $(-3\frac{1}{3})$ (ii) $(-1\frac{1}{3})$ (iii) $(-\frac{1}{3})$ (iv) $(-\frac{7}{3})$ (v) $(-4\frac{1}{3})$

4. Which of the following are true?

- a) $\frac{3}{10} - \frac{44}{3} = \frac{44}{3} - \frac{3}{10}$
- b) $\frac{11}{9} + \frac{44}{3} = \frac{44}{3} + \frac{11}{9}$
- c) $\frac{3}{10} \div \frac{107}{19} = \frac{107}{19} \div \frac{3}{10}$
- d) $\frac{11}{9} \times \frac{107}{19} = \frac{107}{19} \times \frac{11}{9}$

(i) {a,b} (ii) {a,c,b} (iii) {b,d} (iv) {c,d} (v) {a,d,b}

5. Which of the following are true?

- a) $\frac{11}{10} - (\frac{73}{14} - \frac{9}{16}) = (\frac{11}{10} - \frac{73}{14}) - \frac{9}{16}$
- b) $\frac{5}{19} + (\frac{73}{14} + \frac{3}{19}) = (\frac{5}{19} + \frac{73}{14}) + \frac{3}{19}$
- c) $\frac{11}{10} \div (\frac{47}{14} \div \frac{17}{15}) = (\frac{11}{10} \div \frac{47}{14}) \div \frac{17}{15}$
- d) $\frac{5}{19} \times (\frac{47}{14} \times \frac{14}{13}) = (\frac{5}{19} \times \frac{47}{14}) \times \frac{14}{13}$

(i) {a,c,b} (ii) {c,d} (iii) {a,d,b} (iv) {b,d} (v) {a,b}

6. Which of the following are true?

- a) $\frac{9}{17} \times (\frac{171}{20} + \frac{15}{11}) = (\frac{9}{17} \times \frac{171}{20}) + (\frac{9}{17} \times \frac{15}{11})$
- b) $\frac{9}{17} \times (\frac{95}{18} - \frac{19}{10}) = (\frac{9}{17} \times \frac{95}{18}) - (\frac{9}{17} \times \frac{19}{10})$
- c) $\frac{5}{12} - (\frac{95}{18} \times \frac{7}{4}) = (\frac{5}{12} - \frac{95}{18}) \times (\frac{5}{12} - \frac{7}{4})$
- d) $\frac{5}{12} \div (\frac{171}{20} + \frac{7}{6}) = (\frac{5}{12} \div \frac{171}{20}) + (\frac{5}{12} \div \frac{7}{6})$

(i) {c,b,a} (ii) {d,b} (iii) {c,a} (iv) {c,d,a} (v) {a,b}

7. Which of the following is true?

a) $2.3500 \div 4.5100 = 4.5100 \div 2.3500$

b) $4.8500 - 2.3500 = 2.3500 - 4.8500$

c) $12.3300 + 4.8500 = 4.8500 + 12.3300$

d) $4.5100 \times 12.3300 = 12.3300 \times 4.5100$

(i) {b,d} (ii) {a,c} (iii) {c,d} (iv) {a,b,c} (v) {a,d,c}

8. Which of the following is true?

a) $16.0300 + (20.9700 + 18.5400) = (16.0300 + 20.9700) + 18.5400$

b) $9.5800 \times (16.0300 \times 20.9700) = (9.5800 \times 16.0300) \times 20.9700$

c) $18.5400 \div (9.5800 \div 16.0300) = (18.5400 \div 9.5800) \div 16.0300$

d) $20.9700 - (18.5400 - 9.5800) = (20.9700 - 18.5400) - 9.5800$

(i) {c,b,a} (ii) {c,a} (iii) {a,b} (iv) {d,b} (v) {c,d,a}

9. Which of the following is true?

a) $2.6900 \times (18.7400 + 2.3600) = (2.6900 \times 18.7400) + (2.6900 \times 2.3600)$

b) $18.7400 \times (2.3600 - 4.8500) = (18.7400 \times 2.3600) - (18.7400 \times 4.8500)$

c) $4.8500 \div (2.6900 + 18.7400) = (4.8500 \div 2.6900) + (4.8500 \div 18.7400)$

d) $2.3600 - (4.8500 \times 2.6900) = (2.3600 - 4.8500) \times (2.3600 - 2.6900)$

(i) {a,b} (ii) {c,d,a} (iii) {c,b,a} (iv) {d,b} (v) {c,a}

Assignment Key

- 1) (v)
- 2) (v)
- 3) (iv)
- 4) (iii)
- 5) (iv)
- 6) (v)
- 7) (iii)
- 8) (iii)
- 9) (i)