EduSahara™ Assignment

Name : Properties of Real Numbers

Chapter : Real Numbers

Grade : SSC Grade X

1. Which of the following are true?

   a) real numbers are closed under addition
   b) real numbers are closed under multiplication
   c) real numbers are closed under subtraction
   d) real numbers are closed under division

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

2. The additive inverse of $(\frac{-7}{8})$ is

   (i) 0 (ii) $\frac{8}{7}$ (iii) $\frac{8}{-7}$ (iv) $(\frac{-1}{8})$ (v) $\frac{7}{8}$

3. The multiplicative inverse of $(\frac{-4}{7})$ is

   (i) $(\frac{-3}{4})$ (ii) $(\frac{-7}{4})$ (iii) $(-3\frac{3}{4})$ (iv) $(-2\frac{3}{4})$ (v) $\frac{1}{4}$

4. Which of the following are true?

   a) $\frac{17}{5}-\frac{68}{11}=\frac{68}{11}-\frac{17}{5}$

   b) $\frac{14}{3}\times\frac{114}{11}=\frac{114}{11}\times\frac{14}{3}$

   c) $\frac{17}{5}\div\frac{114}{11}=\frac{114}{11}\div\frac{17}{5}$

   d) $\frac{14}{3}+\frac{68}{11}=\frac{68}{11}+\frac{14}{3}$

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

5. Which of the following are true?

   a) $\frac{19}{15}\div(\frac{36}{7}\div\frac{16}{19})=(\frac{19}{15}\div\frac{36}{7})\div\frac{16}{19}$

   b) $\frac{15}{13}+(\frac{31}{6}+\frac{11}{9})=(\frac{15}{13}+\frac{31}{6})+\frac{11}{9}$

   c) $\frac{19}{15}-(\frac{31}{6}-\frac{17}{15})=(\frac{19}{15}-\frac{31}{6})-\frac{17}{15}$

   d) $\frac{15}{13}\times(\frac{36}{7}\times\frac{15}{2})=(\frac{15}{13}\times\frac{36}{7})\times\frac{15}{2}$

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

6. Which of the following are true?

a) $\frac{1}{3} \div (\frac{52}{5} + \frac{17}{20}) = (\frac{1}{3} \div \frac{52}{5}) + (\frac{1}{3} \div \frac{17}{20})$

b) $\frac{1}{20} \times (\frac{23}{2} - \frac{16}{3}) = (\frac{1}{20} \times \frac{23}{2}) - (\frac{1}{20} \times \frac{16}{3})$

c) $\frac{1}{20} \times (\frac{52}{5} + \frac{1}{20}) = (\frac{1}{20} \times \frac{52}{5}) + (\frac{1}{20} \times \frac{1}{20})$

d) $\frac{1}{3} - (\frac{23}{2} \times \frac{17}{15}) = (\frac{1}{3} - \frac{23}{2}) \times (\frac{1}{3} - \frac{17}{15})$

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

7. Which of the following is true?

a) $9.6400 - 17.6600 = 17.6600 - 9.6400$

b) $17.6600 \div 16.6100 = 16.6100 \div 17.6600$

c) $16.6100 \times 10.3200 = 10.3200 \times 16.6100$

d) $10.3200 + 9.6400 = 9.6400 + 10.3200$

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

8. Which of the following is true?

a) $6.9200 + (4.4900 + 20.1200) = (6.9200 + 4.4900) + 20.1200$

b) $4.4900 - (20.1200 - 20.1100) = (4.4900 - 20.1200) - 20.1100$

c) $20.1100 \times (6.9200 \times 4.4900) = (20.1100 \times 6.9200) \times 4.4900$

d) $20.1200 \div (20.1100 \div 6.9200) = (20.1200 \div 20.1100) \div 6.9200$

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

9. Which of the following is true?

a) $19.9100 - (6.3700 \times 7.5000) = (19.9100 - 6.3700) \times (19.9100 - 7.5000)$

b) $6.3700 \div (7.5000 + 5.2600) = (6.3700 \div 7.5000) + (6.3700 \div 5.2600)$

c) $7.5000 \times (5.2600 + 19.9100) = (7.5000 \times 5.2600) + (7.5000 \times 19.9100)$

d) $5.2600 \times (19.9100 - 6.3700) = (5.2600 \times 19.9100) - (5.2600 \times 6.3700)$

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

Assignment Key

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