



1. The decimal number -1.841 lies between

- (i) {0,1} (ii) {-3,-2} (iii) {-1,0} (iv) {-2,-1} (v) {-4,-3}

2. $10 - \frac{2}{3} = \underline{\hspace{2cm}}$

- (i) $\frac{28}{3}$ (ii) $\frac{28}{5}$ (iii) 28 (iv) $\frac{26}{3}$ (v) 10

3. The decimal number -29.4 lies between

- (i) {-29,-28} (ii) {-32,-31} (iii) {-30,-29} (iv) {-31,-30} (v) {-28,-27}

4. Which of the following are true?

a) $\frac{10}{11} \div (\frac{79}{11} \div \frac{4}{5}) = (\frac{10}{11} \div \frac{79}{11}) \div \frac{4}{5}$

b) $\frac{1}{12} \times (\frac{79}{11} \times \frac{12}{13}) = (\frac{1}{12} \times \frac{79}{11}) \times \frac{12}{13}$

c) $\frac{10}{11} - (\frac{26}{9} - \frac{19}{6}) = (\frac{10}{11} - \frac{26}{9}) - \frac{19}{6}$

d) $\frac{1}{12} + (\frac{26}{9} + \frac{17}{12}) = (\frac{1}{12} + \frac{26}{9}) + \frac{17}{12}$

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

5. $\frac{8}{7} \div 18 = \underline{\hspace{2cm}}$

- (i) $\frac{4}{65}$ (ii) $\frac{2}{21}$ (iii) $\frac{2}{63}$ (iv) $\frac{4}{63}$ (v) $\frac{4}{61}$

6. The decimal number 2.0059 lies between

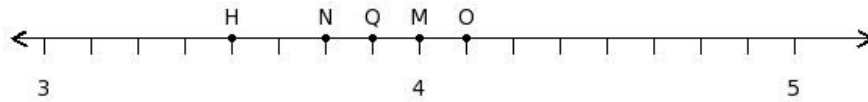
- (i) {2.0049,2.0069} (ii) {2.0057,2.0058} (iii) {2.0060,2.0061} (iv) {2.0039,2.0049} (v) {2.0069,2.0079}

7. Which of the following are true?

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

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

8. Find the position of the rational number $\frac{31}{8}$ on the number line



- (i) O (ii) M (iii) H (iv) N (v) Q

9. The decimal number 0.124 lies between

- (i) {1,2} (ii) {0,1} (iii) {-2,-1} (iv) {2,3} (v) {-1,0}

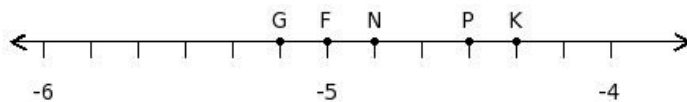
10. $\frac{10}{9} \times 4 = \underline{\hspace{2cm}}$

- (i) $\frac{40}{11}$ (ii) $\frac{38}{9}$ (iii) $\frac{40}{7}$ (iv) $\frac{14}{3}$ (v) $\frac{40}{9}$

11. Find the missing value in $\frac{19}{9} \div \underline{\hspace{2cm}} = \frac{133}{81}$

- (i) 1 (ii) $\frac{11}{7}$ (iii) $\frac{9}{5}$ (iv) $\frac{9}{7}$

12. Find the position of the rational number ($-\frac{29}{6}$) on the number line

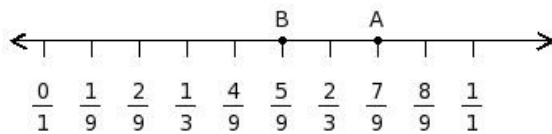


- (i) K (ii) F (iii) P (iv) N (v) G

13. $18 \times \frac{13}{9} = \underline{\hspace{2cm}}$

- (i) 25 (ii) 28 (iii) 26 (iv) 24 (v) 27

14. Find the difference between the values of numbers at point A and B



- (i) $\frac{2}{11}$ (ii) $\frac{2}{9}$ (iii) $\frac{2}{7}$ (iv) $\frac{4}{9}$ (v) 0

15. Find the product of the rational numbers at the points labelled with letters P and Q



- (i) $\frac{2077}{50}$ (ii) $\frac{2159}{52}$ (iii) $\frac{83}{2}$ (iv) $\frac{665}{16}$ (v) $\frac{2079}{50}$

16. Which of the following is true?

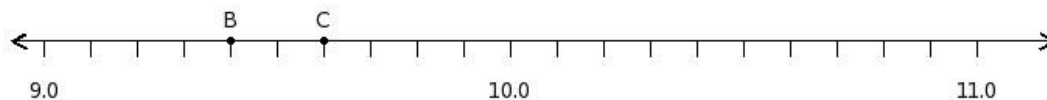
- a) $20.5200 \times (7.0900 \times 2.5000) = (20.5200 \times 7.0900) \times 2.5000$
- b) $2.5000 - (6.9300 - 20.5200) = (2.5000 - 6.9300) - 20.5200$
- c) $6.9300 \div (20.5200 \div 7.0900) = (6.9300 \div 20.5200) \div 7.0900$
- d) $7.0900 + (2.5000 + 6.9300) = (7.0900 + 2.5000) + 6.9300$

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

17. Which of the following decimal numbers lie between 6815.6234 and 6815.6235?

(i) 6815.62347 (ii) 6815.62334 (iii) 68156.23471 (iv) 6815.62356 (v) 681.56235

18. Find the difference of the decimal numbers at the points labelled with letters B and C



(i) 0.4 (ii) 0.6 (iii) 0.2 (iv) 0

19. Which of the following is true?

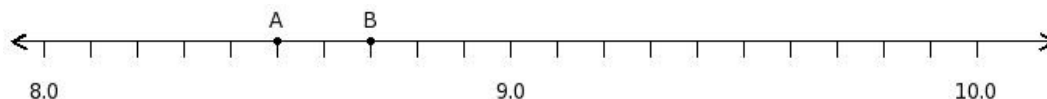
- (i) $\frac{9}{16} > \frac{12}{17}$ (ii) $\frac{4}{5} > \frac{9}{14}$ (iii) $\frac{4}{14} < \frac{2}{16}$ (iv) $\frac{3}{7} > \frac{14}{16}$ (v) $\frac{7}{10} < \frac{5}{12}$

20. Which of the following are true?

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

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

21. Find the sum of the decimal numbers at the points labelled with letters A and B



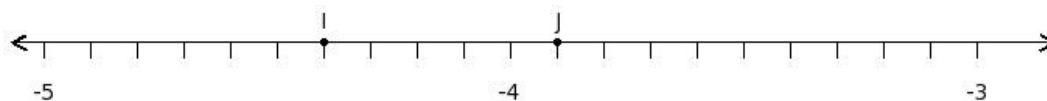
(i) 17.2 (ii) 17.8 (iii) 17.6 (iv) 17.5 (v) 17.1

22. Which of the following are true?

- a) integers are closed under multiplication
- b) integers are closed under division
- c) integers are closed under subtraction
- d) integers are closed under addition

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

23. Find the product of the rational numbers at the points labelled with letters I and J



(i) $\frac{431}{25}$ (ii) $\frac{429}{25}$ (iii) $\frac{427}{25}$ (iv) $\frac{463}{27}$ (v) $\frac{395}{23}$

24. The decimal number -9.0073 lies between

- (i) $\{-9.0093, -9.0083\}$ (ii) $\{-9.0075, -9.0074\}$ (iii) $\{-9.0063, -9.0053\}$ (iv) $\{-9.0072, -9.0071\}$
(v) $\{-9.0083, -9.0063\}$

25. Which of the following are true?

- a) $8 - (12 \times 4) = (8 - 12) \times (8 - 4)$
b) $5 \times (8 - 12) = (5 \times 8) - (5 \times 12)$
c) $4 \times (5 + 8) = (4 \times 5) + (4 \times 8)$
d) $12 \div (4 + 5) = (12 \div 4) + (12 \div 5)$

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

Assignment Key

1) (iv)	2) (i)	3) (iii)	4) (i)	5) (iv)	6) (i)
7) (iii)	8) (v)	9) (ii)	10) (v)	11) (iv)	12) (iv)
13) (iii)	14) (ii)	15) (i)	16) (iii)	17) (i)	18) (iii)
19) (ii)	20) (i)	21) (i)	22) (iii)	23) (ii)	24) (v)
25) (i)					