

Atomic Energy Education Society

Session : 2023 – 24

Class: VIII

Subject: Mathematics

Chapter : 1 Rational Numbers Answer Key

1. a $(-9/10)$
2. a 1
3. d Rational Numbers
4. (a) rational numbers are closed under addition.
5. b $7/5$
6. d not defined
7. c 8
8. a $(-2/3)$
9. c $17/5$
10. b $-16\frac{8}{21}$
11. $\frac{1}{4}$ or $1/4$
12. $(-1/4)$
13. (a) $5/9$ (b) -3
14. 1
15. (a) $9/7$ (b) 3
16. No
17. $1/a$
18. $(-1/6)$
19. $(-1/6)$
20. $-14/27$
21. 2
22. No
23. No
24. (a) $-9/7$ (b) -3 (c) $-1/3$
25. $19\frac{8}{9}$
26. $5/7$; $-12/5$
27. $-10\frac{62}{91}$

28. $\frac{-31}{27}$

29. $-125/462$

30. (i) $-19/8$ (ii) $19/8$

31. $37/3$

32. LHS = RHS = $-7/30$

33. Rs. 96.5

34. LHS = RHS = $-2/5$

35. (i) 2 (ii) $-11/28$

36. (i) 33cm. (ii) 600

37. (i) $-8/11, -4/9, 2/3$ (ii) $2/3, -4/9, -8/11$

38. (i) 1 (ii) 0 (iii) x (iv) 0 (v) 0

39. (i) 0 (ii) 1 (iii) 1 (iv) Associative Property of Multiplication

(v) Rs. 221.25

40. (i) $19\frac{2}{7}$ (ii) $36/29$ or $1\frac{7}{29}$
