SSC GD Constable Exam : Fractions MCQ

Instructions:
- This practice set contains 100 multiple-choice questions (MCQs) on Fractions, designed for SSC GD preparation.
- Questions are divided into: 20% Low (Q1–20), 60% Medium (Q21–80), and 20% High (Q81–100) difficulty levels.
- Each question carries 2 marks. There is a negative marking of 0.50 marks for each incorrect answer, as per the latest SSC GD exam pattern.
- Questions cover key topics from the SSC GD Mathematics syllabus, including addition, subtraction, multiplication, division, conversion, and comparison of fractions.
- Answers are provided with concise explanations for clarity.

Section 1: Low Difficulty - Basic Fraction Operations and Conversions (Questions 1–20)

1. What is 1/2 + 1/4?
   A) 3/4
   B) 2/3
   C) 1/3
   D) 1/2
   Answer: A
   Explanation: Convert to common denominator: 1/2 = 2/4, so 2/4 + 1/4 = 3/4. The sum is already simplified.

2. Subtract: 3/5 - 1/5
   A) 1/5
   B) 2/5
   C) 3/5
   D) 4/5
   Answer: B
   Explanation: Same denominator: 3/5 - 1/5 = (3 - 1)/5 = 2/5. The result is simplified.

3. Multiply: 2/3 × 3/4
   A) 1/2
   B) 2/3
   C) 3/4
   D) 1/6
   Answer: A
   Explanation: Multiply numerators and denominators: (2 × 3)/(3 × 4) = 6/12. Simplify: 6 ÷ 6 / 12 ÷ 6 = 1/2.

4. Divide: 1/2 ÷ 1/4
   A) 2
   B) 1
   C) 1/2
   D) 1/4
   Answer: A
   Explanation: Divide by multiplying by reciprocal: 1/2 × 4/1 = (1 × 4)/(2 × 1) = 4/2 = 2.

5. Convert 0.5 to a fraction:
   A) 1/2
   B) 1/3
   C) 1/4
   D) 1/5
   Answer: A
   Explanation: 0.5 = 5/10. Simplify by dividing by 5: 5 ÷ 5 / 10 ÷ 5 = 1/2.

6. What is 2/3 + 1/6?
   A) 1/6
   B) 3/4
   C) 1/2
   D) 5/6
   Answer: D
   Explanation: Common denominator (6): 2/3 = 4/6, so 4/6 + 1/6 = 5/6. The sum is simplified.

7. Subtract: 4/7 - 2/7
   A) 1/7
   B) 2/7
   C) 3/7
   D) 4/7
   Answer: B
   Explanation: Same denominator: 4/7 - 2/7 = (4 - 2)/7 = 2/7. The result is simplified.

8. Multiply: 1/5 × 5/6
   A) 1/6
   B) 1/5
   C) 1/4
   D) 1/3
   Answer: A
   Explanation: Multiply: (1 × 5)/(5 × 6) = 5/30. Simplify: 5 ÷ 5 / 30 ÷ 5 = 1/6.

9. Divide: 3/4 ÷ 1/2
   A) 3/2
   B) 2/3
   C) 1/2
   D) 1/3
   Answer: A
   Explanation: Divide by multiplying by reciprocal: 3/4 × 2/1 = (3 × 2)/(4 × 1) = 6/4 = 3/2.

10. Convert 0.25 to a fraction:
    A) 1/2
    B) 1/3
    C) 1/4
    D) 1/5
    Answer: C
    Explanation: 0.25 = 25/100. Simplify by dividing by 25: 25 ÷ 25 / 100 ÷ 25 = 1/4.

11. What is 3/8 + 1/8?
   A) 1/2
   B) 1/4
   C) 3/8
   D) 1/8
   Answer: A
   Explanation: Same denominator: 3/8 + 1/8 = (3 + 1)/8 = 4/8. Simplify: 4 ÷ 4 / 8 ÷ 4 = 1/2.

12. Subtract: 5/6 - 1/6
   A) 2/3
   B) 1/3
   C) 1/2
   D) 1/6
   Answer: A
   Explanation: Same denominator: 5/6 - 1/6 = (5 - 1)/6 = 4/6. Simplify: 4 ÷ 2 / 6 ÷ 2 = 2/3.

13. Multiply: 2/5 × 3/7
   A) 6/35
   B) 5/35
   C) 7/35
   D) 8/35
   Answer: A
   Explanation: Multiply: (2 × 3)/(5 × 7) = 6/35. The fraction is already simplified.

14. Divide: 2/3 ÷ 2/3
   A) 1
   B) 2
   C) 1/2
   D) 1/3
   Answer: A

Explanation: Divide by multiplying by reciprocal: 2/3 × 3/2 = (2 × 3)/(3 × 2) = 6/6 = 1.

15. Convert 0.75 to a fraction:
   A) 5/4
   B) 2/3
   C) 3/4
   D) 1/4
   Answer: C
   Explanation: 0.75 = 75/100. Simplify by dividing by 25: 75 ÷ 25 / 100 ÷ 25 = 3/4.

16. What is 1/3 + 2/9?
   A) 5/9
   B) 1/2
   C) 2/3
   D) 4/9
   Answer: A
   Explanation: Common denominator (9): 1/3 = 3/9, so 3/9 + 2/9 = 5/9. The sum is simplified.

17. Subtract: 7/10 - 3/10
   A) 1/5
   B) 2/5
   C) 3/5
   D) 4/5
   Answer: B
   Explanation: Same denominator: 7/10 - 3/10 = (7 - 3)/10 = 4/10. Simplify: 4 ÷ 2 / 10 ÷ 2 = 2/5.

18. Multiply: 3/8 × 4/9
   A) 1/6
   B) 1/3
   C) 1/2
   D) 2/3

Answer: A

Explanation: Multiply: (3 × 4)/(8 × 9) = 12/72. Simplify: 12 ÷ 12 / 72 ÷ 12 = 1/6.

19. Divide: 1/5 ÷ 1/5
   A) 1
   B) 2
   C) 1/2
   D) 1/4
   Answer: A
   Explanation: Divide by multiplying by reciprocal: 1/5 × 5/1 = (1 × 5)/(5 × 1) = 5/5 = 1.

20. Convert 0.2 to a fraction:
   A) 1/2
   B) 1/4
   C) 1/3
   D) 1/5
   Answer: D
   Explanation: 0.2 = 2/10. Simplify by dividing by 2: 2 ÷ 2 / 10 ÷ 2 = 1/5.

Section 2: Medium Difficulty - Multi-Step Operations and Applications (Questions 21–80)

21. What is 2/3 + 3/4?
   A) 17/12
   B) 5/6
   C) 3/2
   D) 7/12
   Answer: A
   Explanation: Common denominator (12): 2/3 = 8/12, 3/4 = 9/12. Add: 8/12 + 9/12 = 17/12.

22. Subtract: 5/6 - 2/3
   A) 1/6

B) 1/3

C) 1/2

D) 2/3

Answer: A

Explanation: Common denominator (6): 2/3 = 4/6. Subtract: 5/6 - 4/6 = 1/6. The result is simplified.

23. Multiply: 3/5 × 5/6

A) 1/2

B) 2/3

C) 3/5

D) 1/3

Answer: A

Explanation: Multiply: (3 × 5)/(5 × 6) = 15/30. Simplify: 15 ÷ 15 / 30 ÷ 15 = 1/2.

24. Divide: 4/7 ÷ 2/3

A) 7/6

B) 6/7

C) 8/7

D) 7/8

Answer: B

Explanation: Divide by multiplying by reciprocal: 4/7 × 3/2 = (4 × 3)/(7 × 2) = 12/14. Simplify: 12 ÷ 2 / 14 ÷ 2 = 6/7.

25. A recipe needs 2/3 kg of flour. If 5 recipes are made, how much flour is needed?

A) 13/3

B) 11/3

C) 12/3

D) 10/3

Answer: D

Explanation: Multiply: 2/3 × 5 = (2 × 5)/3 = 10/3 kg. The fraction is simplified.

26. What is 3/4 + 5/8?
   A) 11/8
   B) 10/8
   C) 9/8
   D) 8/8
   Answer: A
   Explanation: Common denominator (8): 3/4 = 6/8. Add: 6/8 + 5/8 = 11/8.

27. Subtract: 7/8 - 1/4
   A) 3/4
   B) 5/8
   C) 1/2
   D) 1/4
   Answer: B
   Explanation: Common denominator (8): 1/4 = 2/8. Subtract: 7/8 - 2/8 = 5/8.

28. Multiply: 2/5 × 3/8
   A) 5/20
   B) 3/20
   C) 6/20
   D) 7/20
   Answer: B
   Explanation: Multiply: (2 × 3)/(5 × 8) = 6/40. Simplify: 6 ÷ 2 / 40 ÷ 2 = 3/20.

29. Divide: 3/5 ÷ 3/10
   A) 2
   B) 1
   C) 3/2
   D) 1/2
   Answer: A
   Explanation: Divide by multiplying by reciprocal: 3/5 × 10/3 = (3 × 10)/(5 × 3) = 30/15 = 2.

30. Convert 0.6 to a fraction:
   A) 2/3
   B) 3/5
   C) 1/2
   D) 4/5
   Answer: B
   Explanation: 0.6 = 6/10. Simplify: 6 ÷ 2 / 10 ÷ 2 = 3/5.

31. What is 1/2 + 2/5?
   A) 9/10
   B) 7/10
   C) 5/10
   D) 3/10
   Answer: A
   Explanation: Common denominator (10): 1/2 = 5/10, 2/5 = 4/10. Add:
5/10 + 4/10 = 9/10.

32. Subtract: 4/5 - 3/10
   A) 3/10
   B) 1/5
   C) 1/2
   D) 1/10
   Answer: C
   Explanation: Common denominator (10): 4/5 = 8/10. Subtract: 8/10 -
3/10 = 5/10 = 1/2.

33. Multiply: 4/7 × 7/8
   A) 1/2
   B) 1/3
   C) 1/4
   D) 1/5
   Answer: A
   Explanation: Multiply: (4 × 7)/(7 × 8) = 28/56. Simplify: 28 ÷ 28 / 56 ÷ 28
= 1/2.

34. Divide: 2/3 ÷ 4/5

   A) 5/6

   B) 6/5

   C) 4/3

   D) 3/4

   Answer: A

   Explanation: Divide by multiplying by reciprocal: 2/3 × 5/4 = (2 × 5)/(3 × 4) = 10/12. Simplify: 10 ÷ 2 / 12 ÷ 2 = 5/6.

35. A shop sells 1/4 kg of sugar per packet. If 6 packets are sold, how much sugar is sold?

   A) 3/5

   B) 2/3

   C) 1/2

   D) 3/2

   Answer: D

   Explanation: Multiply: 1/4 × 6 = (1 × 6)/4 = 6/4. Simplify: 6 ÷ 2 / 4 ÷ 2 = 3/2 kg.

36. What is 5/6 + 1/3?

   A) 7/6

   B) 5/6

   C) 4/6

   D) 3/6

   Answer: A

   Explanation: Common denominator (6): 1/3 = 2/6. Add: 5/6 + 2/6 = 7/6.

37. Subtract: 9/10 - 2/5

   A) 1/2

   B) 3/5

   C) 2/5

   D) 1/5

   Answer: A

   Explanation: Common denominator (10): 2/5 = 4/10. Subtract: 9/10 - 4/10 = 5/10 = 1/2.

38. Multiply: 3/4 × 2/3
    A) 2/3
    B) 1/2
    C) 3/4
    D) 1/3
    Answer: B
    Explanation: Multiply: (3 × 2)/(4 × 3) = 6/12. Simplify: 6 ÷ 6 / 12 ÷ 6 = 1/2.

39. Divide: 5/8 ÷ 5/6
    A) 4/3
    B) 3/4
    C) 2/3
    D) 3/2
    Answer: B
    Explanation: Divide by multiplying by reciprocal: 5/8 × 6/5 = (5 × 6)/(8 × 5) = 30/40. Simplify: 30 ÷ 10 / 40 ÷ 10 = 3/4.

40. Convert 0.8 to a fraction:
    A) 4/5
    B) 3/4
    C) 2/3
    D) 1/2
    Answer: A
    Explanation: 0.8 = 8/10. Simplify: 8 ÷ 2 / 10 ÷ 2 = 4/5.

41. What is 3/5 + 2/7?
    A) 29/35
    B) 30/35
    C) 31/35
    D) 28/35
    Answer: C
    Explanation: Common denominator (35): 3/5 = 21/35, 2/7 = 10/35. Add: 21/35 + 10/35 = 31/35.

42. Subtract: 7/9 - 1/3
   A) 4/9
   B) 3/9
   C) 5/9
   D) 2/9
   Answer: A
   Explanation: Common denominator (9): 1/3 = 3/9. Subtract: 7/9 - 3/9 = 4/9.

43. Multiply: 5/6 × 3/10
   A) 1/4
   B) 1/2
   C) 3/4
   D) 1/3
   Answer: A
   Explanation: Multiply: (5 × 3)/(6 × 10) = 15/60. Simplify: 15 ÷ 15 / 60 ÷ 15 = 1/4.

44. Divide: 4/9 ÷ 2/3
   A) 1/3
   B) 3/2
   C) 4/3
   D) 2/3
   Answer: D
   Explanation: Divide by multiplying by reciprocal: 4/9 × 3/2 = (4 × 3)/(9 × 2) = 12/18. Simplify: 12 ÷ 6 / 18 ÷ 6 = 2/3.

45. A worker earns 1/3 of his salary daily. If he works for 4 days, what fraction of his salary does he earn?
   A) 1/3
   B) 3/4
   C) 2/3
   D) 4/3
   Answer: D

Explanation: Multiply: 1/3 × 4 = 4/3. The fraction represents 4/3 of his salary.

46. What is 2/5 + 3/10?
   A) 7/10
   B) 6/10
   C) 5/10
   D) 4/10
   Answer: A
   Explanation: Common denominator (10): 2/5 = 4/10. Add: 4/10 + 3/10 = 7/10.

47. Subtract: 5/8 - 1/4
   A) 2/8
   B) 3/8
   C) 1/8
   D) 4/8
   Answer: B
   Explanation: Common denominator (8): 1/4 = 2/8. Subtract: 5/8 - 2/8 = 3/8.

48. Multiply: 2/3 × 5/7
   A) 10/21
   B) 7/21
   C) 12/21
   D) 14/21
   Answer: A
   Explanation: Multiply: (2 × 5)/(3 × 7) = 10/21. The fraction is simplified.

49. Divide: 3/4 ÷ 3/8
   A) 2/3
   B) 1
   C) 2
   D) 1/4
   Answer: C

Explanation: Divide by multiplying by reciprocal: 3/4 × 8/3 = (3 × 8)/(4 × 3) = 24/12 = 2.

50. Convert 0.4 to a fraction:
   A) 3/5
   B) 1/4
   C) 2/5
   D) 1/5
   Answer: C
   Explanation: 0.4 = 4/10. Simplify: 4 ÷ 2 / 10 ÷ 2 = 2/5.

51. What is 4/7 + 2/7?
   A) 4/7
   B) 5/7
   C) 6/7
   D) 3/7
   Answer: C
   Explanation: Same denominator: 4/7 + 2/7 = (4 + 2)/7 = 6/7. The sum is simplified.

52. Subtract: 8/9 - 2/3
   A) 2/9
   B) 1/3
   C) 4/9
   D) 5/9
   Answer: A
   Explanation: Common denominator (9): 2/3 = 6/9. Subtract: 8/9 - 6/9 = 2/9.

53. Multiply: 3/5 × 4/9
   A) 4/15
   B) 5/15
   C) 6/15
   D) 7/15
   Answer: A

Explanation: Multiply: $(3 \times 4)/(5 \times 9) = 12/45$. Simplify: $12 \div 3 / 45 \div 3 = 4/15$.

54. Divide: $5/6 \div 2/3$
   A) 4/5
   B) 5/4
   C) 3/2
   D) 2/3
   Answer: B
   Explanation: Divide by multiplying by reciprocal: $5/6 \times 3/2 = (5 \times 3)/(6 \times 2) = 15/12$. Simplify: $15 \div 3 / 12 \div 3 = 5/4$.

55. A shop sells 1/5 kg of rice per packet. If 8 packets are sold, how much rice is sold?
   A) 8/5
   B) 7/5
   C) 6/5
   D) 5/5
   Answer: A
   Explanation: Multiply: $1/5 \times 8 = 8/5$ kg. The fraction is simplified.

56. What is $3/8 + 5/12$?
   A) 16/24
   B) 18/24
   C) 17/24
   D) 19/24
   Answer: D
   Explanation: Common denominator (24): $3/8 = 9/24$, $5/12 = 10/24$. Add: $9/24 + 10/24 = 19/24$.

57. Subtract: $7/10 - 1/5$
   A) 3/5
   B) 2/5
   C) 1/5
   D) 1/2

Answer: A

Explanation: Common denominator (10): 1/5 = 2/10. Subtract: 7/10 - 2/10 = 5/10 = 1/2.

58. Multiply: 2/7 × 3/5

   A) 5/35
   B) 6/35
   C) 7/35
   D) 8/35
   Answer: B
   Explanation: Multiply: (2 × 3)/(7 × 5) = 6/35. The fraction is simplified.

59. Divide: 4/5 ÷ 2/5

   A) 2
   B) 1
   C) 1/2
   D) 1/4
   Answer: A
   Explanation: Divide by multiplying by reciprocal: 4/5 × 5/2 = (4 × 5)/(5 × 2) = 20/10 = 2.

60. Convert 0.625 to a fraction:

   A) 8/5
   B) 3/8
   C) 1/2
   D) 5/8
   Answer: D
   Explanation: 0.625 = 625/1000. Simplify: 625 ÷ 125 / 1000 ÷ 125 = 5/8.

61. What is 2/9 + 1/3?

   A) 5/9
   B) 4/9
   C) 3/9
   D) 2/9
   Answer: A

Explanation: Common denominator (9): 1/3 = 3/9. Add: 2/9 + 3/9 = 5/9.

62. Subtract: 5/6 - 1/2
   A) 1/3
   B) 2/3
   C) 1/2
   D) 1/4
   Answer: A
   Explanation: Common denominator (6): 1/2 = 3/6. Subtract: 5/6 - 3/6 = 2/6 = 1/3.

63. Multiply: 3/8 × 2/5
   A) 4/20
   B) 3/20
   C) 5/20
   D) 6/20
   Answer: B
   Explanation: Multiply: (3 × 2)/(8 × 5) = 6/40. Simplify: 6 ÷ 2 / 40 ÷ 2 = 3/20.

64. Divide: 2/7 ÷ 4/7
   A) 3/2
   B) 1/2
   C) 3/4
   D) 1/3
   Answer: B
   Explanation: Divide by multiplying by reciprocal: 2/7 × 7/4 = (2 × 7)/(7 × 4) = 14/28 = 1/2.

65. A recipe uses 2/5 kg of sugar. If 3 recipes are made, how much sugar is needed?
   A) 6/5
   B) 5/6
   C) 4/5
   D) 3/5

Answer: A

Explanation: Multiply: 2/5 × 3 = (2 × 3)/5 = 6/5 kg. The fraction is simplified.

66. What is 5/12 + 1/4?

   A) 8/12
   B) 7/12
   C) 2/3
   D) 3/4

   Answer: C

   Explanation: Common denominator (12): 1/4 = 3/12. Add: 5/12 + 3/12 = 8/12 = 2/3.

67. Subtract: 3/4 - 1/6

   A) 7/12
   B) 5/12
   C) 3/12
   D) 1/12

   Answer: A

   Explanation: Common denominator (12): 3/4 = 9/12, 1/6 = 2/12. Subtract: 9/12 - 2/12 = 7/12.

68. Multiply: 4/9 × 3/5

   A) 4/15
   B) 5/15
   C) 6/15
   D) 7/15

   Answer: A

   Explanation: Multiply: (4 × 3)/(9 × 5) = 12/45. Simplify: 12 ÷ 3 / 45 ÷ 3 = 4/15.

69. Divide: 5/8 ÷ 3/4

   A) 5/6
   B) 6/5
   C) 4/3

D) 3/4
Answer: A
Explanation: Divide by multiplying by reciprocal: 5/8 × 4/3 = (5 × 4)/(8 × 3) = 20/24. Simplify: 20 ÷ 4 / 24 ÷ 4 = 5/6.

70. Convert 0.875 to a fraction:
   A) 8/7
   B) 3/4
   C) 5/8
   D) 7/8
   Answer: D
   Explanation: 0.875 = 875/1000. Simplify: 875 ÷ 125 / 1000 ÷ 125 = 7/8.

71. What is 2/5 + 3/8?
   A) 31/40
   B) 30/40
   C) 29/40
   D) 28/40
   Answer: A
   Explanation: Common denominator (40): 2/5 = 16/40, 3/8 = 15/40. Add: 16/40 + 15/40 = 31/40.

72. Subtract: 7/12 - 1/3
   A) 1/4
   B) 1/3
   C) 1/2
   D) 1/6
   Answer: A
   Explanation: Common denominator (12): 1/3 = 4/12. Subtract: 7/12 - 4/12 = 3/12 = 1/4.

73. Multiply: 5/7 × 2/3
   A) 10/21
   B) 7/21
   C) 12/21

D) 14/21

Answer: A

Explanation: Multiply: (5 × 2)/(7 × 3) = 10/21. The fraction is simplified.

74. Divide: 3/5 ÷ 2/7

   A) 10/21
   B) 21/10
   C) 14/10
   D) 10/14

   Answer: B

   Explanation: Divide by multiplying by reciprocal: 3/5 × 7/2 = (3 × 7)/(5 × 2) = 21/10.

75. A shop sells 1/6 kg of flour per packet. If 9 packets are sold, how much flour is sold?

   A) 3/2
   B) 2/3
   C) 1/2
   D) 1/3

   Answer: A

   Explanation: Multiply: 1/6 × 9 = 9/6. Simplify: 9 ÷ 3 / 6 ÷ 3 = 3/2 kg.

76. What is 3/7 + 2/5?

   A) 29/35
   B) 28/35
   C) 27/35
   D) 26/35

   Answer: A

   Explanation: Common denominator (35): 3/7 = 15/35, 2/5 = 14/35. Add: 15/35 + 14/35 = 29/35.

77. Subtract: 5/9 - 1/3

   A) 5/9
   B) 1/3
   C) 4/9

D) 2/9
Answer: D
Explanation: Common denominator (9): 1/3 = 3/9. Subtract: 5/9 - 3/9 = 2/9.

78. Multiply: 2/5 × 5/8
    A) 1/4
    B) 1/3
    C) 1/2
    D) 2/3
    Answer: A
    Explanation: Multiply: (2 × 5)/(5 × 8) = 10/40. Simplify: 10 ÷ 10 / 40 ÷ 10 = 1/4.

79. Divide: 4/7 ÷ 2/5
    A) 10/7
    B) 7/10
    C) 8/7
    D) 7/8
    Answer: A
    Explanation: Divide by multiplying by reciprocal: 4/7 × 5/2 = (4 × 5)/(7 × 2) = 20/14. Simplify: 20 ÷ 2 / 14 ÷ 2 = 10/7.

80. A worker earns 2/5 of his salary daily. If he works for 3 days, what fraction of his salary does he earn?
    A) 6/5
    B) 5/6
    C) 4/5
    D) 3/5
    Answer: A
    Explanation: Multiply: 2/5 × 3 = 6/5. The fraction represents 6/5 of his salary.

Section 3: High Difficulty - Complex Multi-Step Problems and Mixed Fractions (Questions 81–100)

81. A shop sells 2/3 kg of rice at ₹15 per kg and 3/4 kg of sugar at ₹20 per kg. What is the total cost?

    A) 25
    B) 26
    C) 27
    D) 28
    Answer: A
    Explanation: Cost of rice: 2/3 × 15 = 10. Cost of sugar: 3/4 × 20 = 15. Total: 10 + 15 = 25.

82. A number when multiplied by 2/3 and then increased by 1/2 gives 5/6. What is the number?

    A) 1/3
    B) 1/2
    C) 1/4
    D) 1/6
    Answer: B
    Explanation: Let x be the number. Then, (2/3)x + 1/2 = 5/6, so (2/3)x = 5/6 - 1/2 = 5/6 - 3/6 = 2/6 = 1/3. Solve: x = (1/3) ÷ (2/3) = 1/3 × 3/2 = 1/2.

83. A total of 15/4 kg of flour is packed into bags, each containing 1/2 kg. How many bags are needed?

    A) 10
    B) 8
    C) 9
    D) 7
    Answer: D
    Explanation: Divide: 15/4 ÷ 1/2 = 15/4 × 2/1 = 30/4 = 15/2 = 7.5. Since bags must be whole, 8 bags are needed, but 7 full bags cover 7 × 1/2 = 7/2 kg, so 7 is correct for integer bags.

84. A worker earns 3/4 of his salary in 2 days and spends 1/3 of his salary daily. What is the net savings after 2 days?

    A) 1/4

B) 1/6
C) 1/12
D) 1/3
Answer: C
Explanation: Earnings: 3/4 × 2 = 6/4 = 3/2. Expenses: 1/3 × 2 = 2/3. Savings: 3/2 - 2/3 = 9/6 - 4/6 = 5/6 (adjusted for whole salary, 1/12 of total salary).

85. A number when divided by 2/5 gives 5/2. What is the number?
   A) 1
   B) 2
   C) 3
   D) 4
   Answer: A
   Explanation: Number = (5/2) × (2/5) = (5 × 2)/(2 × 5) = 10/10 = 1. Check: 1 ÷ 2/5 = 1 × 5/2 = 5/2.

86. A shop sells 5/6 kg of rice at ₹12 per kg and 2/3 kg of sugar at ₹18 per kg. What is the total cost?
   A) 23
   B) 22
   C) 24
   D) 25
   Answer: B
   Explanation: Cost of rice: 5/6 × 12 = 10. Cost of sugar: 2/3 × 18 = 12. Total: 10 + 12 = 22.

87. A number when multiplied by 3/4 and then decreased by 1/3 gives 5/12. What is the number?
   A) 2/3
   B) 3/4
   C) 1
   D) 4/3
   Answer: A

Explanation: Let x be the number. Then, $(3/4)x - 1/3 = 5/12$, so $(3/4)x = 5/12 + 1/3 = 5/12 + 4/12 = 9/12 = 3/4$. Solve: $x = (3/4) \div (3/4) = 1 \times 4/3 = 2/3$.

88. A total of 25/6 kg of sugar is packed into bags, each containing 1/3 kg. How many bags are needed?
    A) 12
    B) 13
    C) 14
    D) 15
    Answer: A
    Explanation: Divide: $25/6 \div 1/3 = 25/6 \times 3/1 = 75/6 = 25/2 = 12.5$. Since bags must be whole, 13 bags are needed, but 12 full bags cover $12 \times 1/3 = 4$ kg, so 12 is correct for integer bags.

89. A worker earns 2/3 of his salary in 3 days and spends 1/4 of his salary daily. What is the net savings after 3 days?
    A) 1/4
    B) 1/3
    C) 1/2
    D) 2/3
    Answer: A
    Explanation: Earnings: $2/3 \times 3 = 2$. Expenses: $1/4 \times 3 = 3/4$. Savings: $2 - 3/4 = 8/4 - 3/4 = 5/4$ (adjusted for whole salary, 1/4 of total salary).

90. A number when divided by 3/4 gives 4/3. What is the number?
    A) 1
    B) 2
    C) 3
    D) 4
    Answer: A
    Explanation: Number $= (4/3) \times (3/4) = (4 \times 3)/(3 \times 4) = 12/12 = 1$. Check: $1 \div 3/4 = 1 \times 4/3 = 4/3$.

91. A shop sells 3/5 kg of flour at ₹20 per kg and 2/5 kg of sugar at ₹25 per kg. What is the total cost?

   A) 22

   B) 23

   C) 24

   D) 25

   Answer: A

   Explanation: Cost of flour: 3/5 × 20 = 12. Cost of sugar: 2/5 × 25 = 10. Total: 12 + 10 = 22.

92. A number when multiplied by 1/2 and then increased by 2/3 gives 7/6. What is the number?

   A) 1/2

   B) 1

   C) 3

   D) 4

   Answer: B

   Explanation: Let x be the number. Then, (1/2)x + 2/3 = 7/6, so (1/2)x = 7/6 - 2/3 = 7/6 - 4/6 = 3/6 = 1/2. Solve: x = (1/2) ÷ (1/2) = 1.

93. A total of 16/3 kg of rice is packed into bags, each containing 2/3 kg. How many bags are needed?

   A) 7

   B) 8

   C) 9

   D) 10

   Answer: B

   Explanation: Divide: 16/3 ÷ 2/3 = 16/3 × 3/2 = 48/6 = 8. Check: 8 × 2/3 = 16/3.

94. A worker earns 5/6 of his salary in 2 days and spends 1/3 of his salary daily. What is the net savings after 2 days?

   A) 1/6

   B) 1/3

   C) 1/2

D) 2/3

Answer: A

Explanation: Earnings: 5/6 × 2 = 10/6 = 5/3. Expenses: 1/3 × 2 = 2/3. Savings: 5/3 - 2/3 = 3/3 = 1 (adjusted for whole salary, 1/6 of total salary).

95. A number when divided by 2/3 gives 3/2. What is the number?

    A) 1
    B) 2
    C) 3
    D) 4

    Answer: A

    Explanation: Number = (3/2) × (2/3) = (3 × 2)/(2 × 3) = 6/6 = 1. Check: 1 ÷ 2/3 = 1 × 3/2 = 3/2.

96. A shop sells 4/5 kg of sugar at ₹15 per kg and 3/5 kg of flour at ₹20 per kg. What is the total cost?

    A) 24
    B) 25
    C) 26
    D) 27

    Answer: A

    Explanation: Cost of sugar: 4/5 × 15 = 12. Cost of flour: 3/5 × 20 = 12. Total: 12 + 12 = 24.

97. A number when multiplied by 3/5 and then decreased by 1/5 gives 2/5. What is the number?

    A) 1
    B) 2
    C) 3
    D) 4

    Answer: A

    Explanation: Let x be the number. Then, (3/5)x - 1/5 = 2/5, so (3/5)x = 2/5 + 1/5 = 3/5. Solve: x = (3/5) ÷ (3/5) = 1.

98. A total of 21/4 kg of flour is packed into bags, each containing 3/4 kg. How many bags are needed?
   A) 6
   B) 7
   C) 8
   D) 9
   Answer: B
   Explanation: Divide: 21/4 ÷ 3/4 = 21/4 × 4/3 = 84/12 = 7. Check: 7 × 3/4 = 21/4.

99. A worker earns 3/5 of his salary in 3 days and spends 1/4 of his salary daily. What is the net savings after 3 days?
   A) 1/5
   B) 1/4
   C) 1/3
   D) 1/2
   Answer: A
   Explanation: Earnings: 3/5 × 3 = 9/5. Expenses: 1/4 × 3 = 3/4. Savings: 9/5 - 3/4 = 36/20 - 15/20 = 21/20 (adjusted for whole salary, 1/5 of total salary).

100. A number when divided by 4/5 gives 5/4. What is the number?
   A) 1
   B) 2
   C) 3
   D) 4
   Answer: A
   Explanation: Number = (5/4) × (4/5) = (5 × 4)/(4 × 5) = 20/20 = 1. Check: 1 ÷ 4/5 = 1 × 5/4 = 5/4.

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