

CHAPTER-7 | Fraction

QUIZ
PART-22

1. $9/2 + 5/4 =$

- A. $23/4$
B. $14/6$
C. $19/4$
D. $11/2$ (A)

Explanation: Convert $9/2$ to $18/4$. Then $18/4 + 5/4 = 23/4$.

2. $8/3 + 2/7 =$

- A. $58/21$
B. $62/21$
C. $10/10$
D. $16/21$ (B)

Explanation: LCM of 3 and 7 is 21. So $8/3 = 56/21$ and $2/7 = 6/21$. Sum = $62/21$.

3. $3/4 + 1/3 + 1/5 =$

- A. $71/60$
B. $77/60$
C. $67/60$
D. $17/15$ (B)

Explanation: LCM of 4, 3, and 5 is 60. So the sum is $45/60 + 20/60 + 12/60 = 77/60$.

4. $2/3 + 4/5 + 3/7 =$

- A. $199/105$
B. $189/105$
C. $105/199$
D. $99/35$ (A)

Explanation: LCM of 3, 5, and 7 is 105. So $2/3 = 70/105$, $4/5 = 84/105$, $3/7 = 45/105$. Sum = $199/105$.

5. $9/2 + 5/4 + 7/6 =$

- A. $81/12$
B. $83/12$
C. $73/12$
D. $29/6$ (B)

Explanation: LCM of 2, 4, and 6 is 12. So $9/2 = 54/12$, $5/4 = 15/12$, $7/6 = 14/12$. Sum = $83/12$.

6. In $8/3 + 2/7$, the LCM of the denominators is:

- A. 10
B. 14
C. 21
D. 28 (C)

Explanation: The LCM of 3 and 7 is 21.

7. In $3/4 + 1/3 + 1/5$, the common denominator is:

- A. 12
B. 20
C. 30
D. 60 (D)

Explanation: The LCM of 4, 3, and 5 is 60.

8. Which sum is the greatest?

- A. $9/2 + 5/4$
B. $8/3 + 2/7$
C. $3/4 + 1/3 + 1/5$
D. $2/3 + 4/5 + 3/7$ (A)

Explanation: Their values are $23/4 = 5.75$, $62/21 \approx 2.95$, $77/60 \approx 1.28$, and $199/105 \approx 1.90$. So $23/4$ is the greatest.

9. Which sum is less than 2?

- A. $9/2 + 5/4$
B. $8/3 + 2/7$
C. $3/4 + 1/3 + 1/5$
D. $9/2 + 5/4 + 7/6$ (C)

Explanation: $77/60 \approx 1.28$, which is less than 2. The others are greater than 2.

10. Which sum has denominator 12 after addition?

- A. $9/2 + 5/4$
B. $8/3 + 2/7$
C. $3/4 + 1/3 + 1/5$
D. $9/2 + 5/4 + 7/6$ (D)

Explanation: The common denominator for $9/2$, $5/4$, and $7/6$ is 12, and the sum is $83/12$.