

CHAPTER-7 | Fraction

QUIZ
PART-21

1. $\frac{3}{4} + \frac{1}{3} + \frac{1}{5} =$

- A. $\frac{77}{60}$
 B. $\frac{47}{60}$
 C. $\frac{17}{20}$
 D. $\frac{71}{60}$ (A)

Explanation: LCM of 4, 3, and 5 is 60. So $\frac{3}{4} = \frac{45}{60}$, $\frac{1}{3} = \frac{20}{60}$, $\frac{1}{5} = \frac{12}{60}$. Total = $\frac{77}{60}$.

2. $\frac{2}{3} + \frac{4}{5} =$

- A. $\frac{6}{8}$
 B. $\frac{22}{15}$
 C. $\frac{14}{15}$
 D. $\frac{10}{15}$ (B)

Explanation: LCM of 3 and 5 is 15. So $\frac{2}{3} = \frac{10}{15}$ and $\frac{4}{5} = \frac{12}{15}$. Sum = $\frac{22}{15}$.

3. $\frac{4}{5} + \frac{2}{3} =$

- A. $\frac{22}{15}$
 B. $\frac{6}{8}$
 C. $\frac{14}{15}$
 D. 1 (A)

Explanation: LCM of 5 and 3 is 15. So $\frac{4}{5} = \frac{12}{15}$ and $\frac{2}{3} = \frac{10}{15}$. Sum = $\frac{22}{15}$.

4. $\frac{3}{5} + \frac{5}{8} =$

- A. $\frac{8}{13}$
 B. $\frac{49}{40}$
 C. $\frac{15}{13}$
 D. 1 (B)

Explanation: LCM of 5 and 8 is 40. So $\frac{3}{5} = \frac{24}{40}$ and $\frac{5}{8} = \frac{25}{40}$. Sum = $\frac{49}{40}$.

5. Which sum is greatest?

- A. $\frac{2}{3} + \frac{4}{5}$
 B. $\frac{4}{5} + \frac{2}{3}$
 C. $\frac{3}{5} + \frac{5}{8}$
 D. A and B are equal (D)

Explanation: $\frac{2}{3} + \frac{4}{5} = \frac{22}{15}$ and $\frac{4}{5} + \frac{2}{3} = \frac{22}{15}$, so both are equal and greater than $\frac{49}{40}$.

6. Which sum is less than 1?

- A. $\frac{3}{4} + \frac{1}{3} + \frac{1}{5}$
 B. $\frac{2}{3} + \frac{4}{5}$
 C. $\frac{4}{5} + \frac{2}{3}$
 D. none of these (D)

Explanation: The sums are $\frac{77}{60}$, $\frac{22}{15}$, $\frac{22}{15}$, and $\frac{49}{40}$. All are greater than 1.

7. In $\frac{3}{5} + \frac{5}{8}$, the LCM of denominators is:

- A. 13
 B. 40
 C. 15
 D. 8 (B)

Explanation: The LCM of 5 and 8 is 40.

8. In $\frac{2}{3} + \frac{4}{5}$, $\frac{2}{3}$ becomes:

- A. $\frac{8}{15}$
 B. $\frac{10}{15}$
 C. $\frac{12}{15}$
 D. $\frac{14}{15}$ (B)

Explanation: To convert $\frac{2}{3}$ to denominator 15, multiply by $\frac{5}{5}$. So $\frac{2}{3} = \frac{10}{15}$.

9. Which sum is an improper fraction?

- A. $\frac{3}{5} + \frac{5}{8}$
 B. $\frac{2}{3} + \frac{4}{5}$
 C. $\frac{4}{5} + \frac{2}{3}$
 D. all of these (D)

Explanation: $\frac{49}{40}$, $\frac{22}{15}$, and $\frac{22}{15}$ are all greater than 1, so all are improper fractions.

10. Which sum has denominator 40 after addition?

- A. $\frac{3}{4} + \frac{1}{3} + \frac{1}{5}$
 B. $\frac{2}{3} + \frac{4}{5}$
 C. $\frac{3}{5} + \frac{5}{8}$
 D. $\frac{4}{5} + \frac{2}{3}$ (C)

Explanation: $\frac{3}{5} + \frac{5}{8} = \frac{24}{40} + \frac{25}{40} = \frac{49}{40}$, so the final denominator is 40.