

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Adding and Subtracting Three Fractions

Combine three fractions with the selected operation. Simplify each answer to lowest terms.

1. $\frac{2}{4} + \frac{4}{5} + \frac{5}{10}$

2. $\frac{4}{5} + \frac{6}{10} + \frac{1}{2}$

3. $\frac{3}{4} + \frac{1}{2} + \frac{3}{4}$

4. $\frac{2}{3} + \frac{3}{5} + \frac{1}{2}$

5. $\frac{1}{10} + \frac{1}{2} + \frac{3}{5}$

6. $\frac{1}{2} + \frac{1}{10} + \frac{1}{2}$

7. $\frac{2}{3} + \frac{1}{2} + \frac{1}{4}$

8. $\frac{1}{3} + \frac{1}{5} + \frac{2}{5}$

9. $\frac{4}{5} + \frac{1}{2} + \frac{1}{4}$

10. $\frac{3}{4} + \frac{1}{5} + \frac{9}{10}$

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Adding and Subtracting Three Fractions - Answer key

Combine three fractions with the selected operation. Simplify each answer to lowest terms.

1.

$$\frac{2}{4} + \frac{4}{5} + \frac{5}{10}$$
$$= \frac{9}{5}$$

Use common denominator 20: $2/4 = 10/20$; $4/5 = 16/20$;
 $5/10 = 10/20$.
 $(10 + 16 + 10) / 20 = 36/20$
Divide both parts by 4: $36/20 = 9/5$.

2.

$$\frac{4}{5} + \frac{6}{10} + \frac{1}{2}$$
$$= \frac{19}{10}$$

Use common denominator 10: $4/5 = 8/10$; $6/10 = 6/10$;
 $1/2 = 5/10$.
 $(8 + 6 + 5) / 10 = 19/10$
Already in lowest terms: $19/10$.

3.

$$\frac{3}{4} + \frac{1}{2} + \frac{3}{4}$$
$$= 2$$

Use common denominator 4: $3/4 = 3/4$; $1/2 = 2/4$; $3/4 = 3/4$.
 $(3 + 2 + 3) / 4 = 8/4$
Divide both parts by 4: $8/4 = 2$.

4.

$$\frac{2}{3} + \frac{3}{5} + \frac{1}{2}$$
$$= \frac{53}{30}$$

Use common denominator 30: $2/3 = 20/30$; $3/5 = 18/30$;
 $1/2 = 15/30$.
 $(20 + 18 + 15) / 30 = 53/30$
Already in lowest terms: $53/30$.

5.

$$\frac{1}{10} + \frac{1}{2} + \frac{3}{5}$$
$$= \frac{6}{5}$$

Use common denominator 10: $1/10 = 1/10$; $1/2 = 5/10$;
 $3/5 = 6/10$.
 $(1 + 5 + 6) / 10 = 12/10$
Divide both parts by 2: $12/10 = 6/5$.

6.

$$\frac{1}{2} + \frac{1}{10} + \frac{1}{2}$$
$$= \frac{11}{10}$$

Use common denominator 10: $1/2 = 5/10$; $1/10 = 1/10$;
 $1/2 = 5/10$.
 $(5 + 1 + 5) / 10 = 11/10$
Already in lowest terms: $11/10$.

7.

$$\frac{2}{3} + \frac{1}{2} + \frac{1}{4}$$
$$= \frac{17}{12}$$

Use common denominator 12: $2/3 = 8/12$; $1/2 = 6/12$;
 $1/4 = 3/12$.
 $(8 + 6 + 3) / 12 = 17/12$
Already in lowest terms: $17/12$.

8.

$$\frac{1}{3} + \frac{1}{5} + \frac{2}{5}$$
$$= \frac{14}{15}$$

Use common denominator 15: $1/3 = 5/15$; $1/5 = 3/15$;
 $2/5 = 6/15$.
 $(5 + 3 + 6) / 15 = 14/15$
Already in lowest terms: $14/15$.

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9.

$$\frac{4}{5} + \frac{1}{2} + \frac{1}{4}$$
$$= \frac{31}{20}$$

Use common denominator 20: $\frac{4}{5} = \frac{16}{20}$; $\frac{1}{2} = \frac{10}{20}$;
 $\frac{1}{4} = \frac{5}{20}$.
 $(16 + 10 + 5) / 20 = 31/20$
Already in lowest terms: $31/20$.

10.

$$\frac{3}{4} + \frac{1}{5} + \frac{9}{10}$$
$$= \frac{37}{20}$$

Use common denominator 20: $\frac{3}{4} = \frac{15}{20}$; $\frac{1}{5} = \frac{4}{20}$;
 $\frac{9}{10} = \frac{18}{20}$.
 $(15 + 4 + 18) / 20 = 37/20$
Already in lowest terms: $37/20$.