

A.A.17: Add or subtract fractional expressions with monomial or like binomial denominators.

1. 060625a, P.I. A.A.17

The expression $\frac{5x}{6} + \frac{x}{4}$ is equivalent to

[A] $\frac{5x^2}{10}$ [B] $\frac{3x}{5}$ [C] $\frac{13x}{12}$ [D] $\frac{5x}{24}$

2. fall0727ia, P.I. A.A.17

What is the sum of $\frac{d}{2}$ and $\frac{2d}{3}$ expressed in simplest form?

[A] $\frac{7d}{6}$ [B] $\frac{7d}{5}$ [C] $\frac{3d}{5}$ [D] $\frac{3d}{6}$

3. 080207a, P.I. A.A.17

The sum of $\frac{3}{x} + \frac{2}{5}$, $x \neq 0$, is

[A] $\frac{5}{x+5}$ [B] $\frac{2x+15}{x+5}$
[C] $\frac{1}{x}$ [D] $\frac{2x+15}{5x}$

4. 010423a, P.I. A.A.17

What is the sum of $\frac{2}{x}$ and $\frac{x}{2}$?

[A] 1 [B] $\frac{2+x}{2x}$
[C] $\frac{4+x}{2x}$ [D] $\frac{4+x^2}{2x}$

5. 089911a, P.I. A.A.17

Which expression is equivalent to $\frac{a}{x} + \frac{b}{2x}$?

[A] $\frac{2a+b}{x}$ [B] $\frac{a+b}{3x}$
[C] $\frac{2a+b}{2x}$ [D] $\frac{a+b}{2x}$

6. 080917ia, P.I. A.A.17

What is the sum of $\frac{3}{2x}$ and $\frac{4}{3x}$ expressed in simplest form?

[A] $\frac{17}{6x}$ [B] $\frac{7}{5x}$ [C] $\frac{12}{6x^2}$ [D] $\frac{17}{12x}$

7. 060727a, P.I. A.A.17

What is the sum of $\frac{3}{7n}$ and $\frac{7}{3n}$?

[A] $\frac{58}{21n}$ [B] $\frac{1}{n}$ [C] $\frac{10}{21n}$ [D] $\frac{42}{21n}$

8. 010921ia, P.I. A.A.17

What is $\frac{6}{5x} - \frac{2}{3x}$ in simplest form?

[A] $\frac{4}{2x}$ [B] $\frac{8}{15x}$ [C] $\frac{4}{15x}$ [D] $\frac{8}{15x^2}$

9. 060929ia, P.I. A.A.17

What is $\frac{6}{4a} - \frac{2}{3a}$ expressed in simplest form?

[A] $\frac{8}{7a}$ [B] $\frac{5}{6a}$ [C] $\frac{4}{a}$ [D] $\frac{10}{12a}$

10. 010921a, P.I. A.A.17

Expressed as a single fraction, $\frac{3}{4x} - \frac{2}{5x}$ is equal to

[A] $\frac{1}{20x}$ [B] $-\frac{1}{x}$ [C] $\frac{1}{9x}$ [D] $\frac{7}{20x}$

11. 010016a, P.I. A.A.17

The expression $\frac{y}{x} - \frac{1}{2}$ is equivalent to

[A] $\frac{x-2y}{2x}$ [B] $\frac{1-y}{2x}$
[C] $\frac{y-1}{x-2}$ [D] $\frac{2y-x}{2x}$

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[1] C

[2] A

[3] D

[4] D

[5] C

[6] A

[7] A

[8] B

[9] B

[10] D

[11] D