Algebraic fractions: single term denominators

1

Write $\frac{x}{3} + \frac{x}{4}$ as a single fraction.

$$\frac{x \times \boxed{4}}{3 \times \boxed{4}} + \frac{x \times \boxed{3}}{4 \times \boxed{3}}$$

$$= \frac{\quad}{12}$$

Answer _____

2

Write $\frac{2x}{5} + \frac{x}{3}$ as a single fraction.

$$\frac{2x \times \boxed{3}}{5 \times \boxed{3}} + \frac{x \times \boxed{5}}{3 \times \boxed{5}}$$

$$= \frac{\quad}{\quad}$$

Answer _____

3

Write $\frac{3x}{4} - \frac{x}{5}$ as a single fraction.

$$\frac{3x \times \boxed{\ }}{4 \times \boxed{\ }} - \frac{x \times \boxed{\ }}{5 \times \boxed{\ }}$$

$$= \frac{\quad}{\quad}$$

Answer _____

4

Write $\frac{x}{6} + \frac{2x}{5}$ as a single fraction.

$$\frac{x \times \boxed{\ }}{6 \times \boxed{\ }} + \frac{2x \times \boxed{\ }}{5 \times \boxed{\ }}$$

$$= \frac{\quad}{\quad}$$

Answer _____

5

Write $\frac{2}{x} + \frac{1}{5}$ as a single fraction.

$$\frac{2 \times \boxed{5}}{x \times \boxed{5}} + \frac{1 \times \boxed{x}}{5 \times \boxed{x}}$$

$$= \frac{\quad}{5x}$$

Answer _____

6

Write $\frac{3}{x} + \frac{2}{5}$ as a single fraction.

$$\frac{3 \times \boxed{5}}{x \times \boxed{5}} + \frac{2 \times \boxed{x}}{5 \times \boxed{x}}$$

$$= \frac{\quad}{\quad}$$

Answer _____

7

Write $\frac{5}{x} - \frac{1}{3}$ as a single fraction.

$$\frac{5 \times \boxed{\ }}{x \times \boxed{\ }} - \frac{1 \times \boxed{\ }}{3 \times \boxed{\ }}$$

$$= \frac{\quad}{\quad}$$

Answer _____

8

Ben writes $\frac{1}{x} + \frac{1}{3} = \frac{2}{x+3}$.

Explain the mistake. Write the right single fraction.

_____

_____

Answer _____

Algebraic fractions: single term denominators *further practice*

9

Write $\frac{x}{2} + \frac{x}{7}$ as a single fraction.

_____

Answer _____

10

Write $\frac{3x}{4} - \frac{2x}{3}$ as a single fraction.

_____

Answer _____

11

Write $\frac{4}{x} + \frac{3}{2}$ as a single fraction.

_____

Answer _____

12

Write $\frac{7}{x} - \frac{2}{5}$ as a single fraction.

_____

Answer _____

13

A rope is cut into two pieces.

One is $\frac{x}{3}$ m long and the other is $\frac{x}{5}$ m long. Write the length of the rope as a single fraction.

_____

Answer _____

14

Solve $\frac{x}{3} + \frac{x}{4} = 14$

_____

_____

Answer _____

15

Write $\frac{3}{x} + \frac{1}{2x}$ as a single fraction in its simplest form.

_____

Answer _____

16

Mia says $\frac{x}{2} - \frac{x}{3} = 0$ because $x - x = 0$.

Is she right? Explain.

_____

_____

Answer _____