

Push Tasks — Answers



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

Solution

$$\begin{aligned} 1\frac{1}{4} + \frac{2}{3} &= \frac{5}{4} + \frac{2}{3} \\ &= \frac{15}{12} + \frac{8}{12} = \frac{23}{12} \\ &= 1\frac{11}{12} \end{aligned}$$

3. Is $\frac{2}{3} + \frac{1}{6} = \frac{3}{9}$ correct? Explain.

Solution

$$\begin{aligned} \text{No. } \frac{2}{3} + \frac{1}{6} &= \frac{4}{6} + \frac{1}{6} = \frac{5}{6} \\ \frac{3}{9} &= \frac{1}{3} \neq \frac{5}{6}. \end{aligned}$$

Adding denominators is wrong.

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

Solution

$$\begin{aligned} 2\frac{1}{2} - \frac{3}{4} &= \frac{5}{2} - \frac{3}{4} \\ &= \frac{10}{4} - \frac{3}{4} = \frac{7}{4} \\ &= 1\frac{3}{4} \end{aligned}$$

4. Fill in the blank: $\frac{3}{4} + \frac{\square}{8} = 1$.

Solution

$$\begin{aligned} \frac{3}{4} &= \frac{6}{8}, \text{ so } \frac{\square}{8} = \frac{2}{8} \\ \square &= 2 \end{aligned}$$

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5. Which is greater: $\frac{3}{5} + \frac{1}{4}$ or $\frac{5}{6} - \frac{1}{3}$?

Solution

$$\begin{aligned}\frac{3}{5} + \frac{1}{4} &= \frac{12}{20} + \frac{5}{20} = \frac{17}{20} \\ \frac{5}{6} - \frac{1}{3} &= \frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{10}{20} \\ \frac{3}{5} + \frac{1}{4} &\text{ is greater}\end{aligned}$$

7. Complete: $1 - \frac{5}{12} = \underline{\hspace{2cm}}$.

Solution

$$\begin{aligned}1 - \frac{5}{12} &= \frac{12}{12} - \frac{5}{12} \\ &= \frac{7}{12}\end{aligned}$$

6. Mia walked $\frac{3}{8}$ km and then $\frac{5}{8}$ km.
How far altogether?

Solution

$$\begin{aligned}\frac{3}{8} + \frac{5}{8} &= \frac{8}{8} \\ &= 1 \text{ km}\end{aligned}$$

8. Find two twelfths that add to $\frac{11}{12}$.

Solution

Any pair with numerators summing to 11, e.g.

$$\frac{5}{12} + \frac{6}{12} = \frac{11}{12}$$