

Proper Fractions. Solve by finding a common denominator. Simplify.

$$1. \quad \frac{3 \times 2}{10 \times 2} + \frac{1 \times 5}{4 \times 5} = \frac{6}{20} + \frac{5}{20} = \frac{11}{20}$$

$$3. \quad \frac{2 \times 4}{3 \times 4} + \frac{3 \times 3}{4 \times 3} = \frac{8}{12} + \frac{9}{12} = \frac{17}{12} = \frac{15}{12}$$

$$5. \quad \frac{5 \times 3}{8 \times 3} + \frac{5 \times 4}{6 \times 4} = \frac{15}{24} + \frac{20}{24} = \frac{35}{24} = \frac{11}{24}$$

$$7. \quad \frac{3 \times 8}{5 \times 8} - \frac{1 \times 5}{8 \times 5} = \frac{24}{40} - \frac{5}{40} = \frac{19}{40}$$

$$2. \quad \frac{4 \times 3}{5 \times 3} - \frac{4}{15} = \frac{12}{15} - \frac{4}{15} = \frac{8}{15}$$

$$4. \quad \frac{5}{12} + \frac{1 \times 4}{3 \times 4} = \frac{5}{12} + \frac{4}{12} = \frac{9 \div 3}{12 \div 3} = \frac{3}{4}$$

$$6. \quad \frac{8 \times 2}{9 \times 2} - \frac{1 \times 9}{2 \times 9} = \frac{16}{18} - \frac{9}{18} = \frac{7}{18}$$

$$8. \quad \frac{8}{14} + \frac{2}{7} = \frac{8}{14} + \frac{4}{14} = \frac{12}{14} = \frac{6}{7}$$

Mixed Numbers. Solve by finding a common denominator. Simplify.

$$1. \quad 2 \frac{5 \times 3}{8 \times 3} + 2 \frac{5 \times 4}{6 \times 4} = 2 \frac{15}{24} + 2 \frac{20}{24} = 4 \frac{35}{24} = 5 \frac{11}{24}$$

$$3. \quad \frac{13}{14} - \frac{3}{7} =$$

$$2. \quad 6 \frac{2 \times 4}{3 \times 4} - 4 \frac{1 \times 3}{4 \times 3} = 6 \frac{8}{12} - 4 \frac{3}{12} = 2 \frac{5}{12}$$

$$4. \quad 7 + 1 \frac{3}{8} =$$

$$5. \quad 6 \frac{1}{10} - 3 \frac{3 \times 2}{5 \times 2} = 6 \frac{1}{10} - 3 \frac{6}{10} = 5 \frac{1}{10} - 3 \frac{6}{10} = 2 \frac{5}{10} = 2 \frac{1}{2}$$

$$7. \quad 5 \frac{7}{12} - 2 \frac{2 \times 2}{6 \times 2} = 5 \frac{7}{12} - 2 \frac{4}{12} = 3 \frac{3}{12} = 3 \frac{1}{4}$$

$$6. \quad 8 \frac{9}{9} - 3 \frac{5}{9} = 8 \frac{9}{9} - 3 \frac{5}{9} = 5 \frac{4}{9}$$

$$8. \quad \frac{6 \times 2}{13 \times 2} + \frac{1 \times 13}{2 \times 13} = \frac{12}{26} + \frac{13}{26} = \frac{25}{26}$$

Multiple Choice. Select the correct answer for each problem below.

Which expression can be used to solve $\frac{5 \times 3}{6 \times 3} - \frac{2 \times 2}{4 \times 2}$ common denom: 18

- A. $\frac{5}{15} - \frac{2}{15}$ B. $\frac{14}{15} - \frac{8}{15}$ C. $\frac{5}{18} - \frac{2}{18}$ **D. $\frac{15}{18} - \frac{4}{18}$**

Eli read $\frac{3}{12}$ of his book today at school. When he got home, he read another $\frac{2}{3}$ of his book. What fraction of his book has Eli read so far? ← addition

- A. $\frac{5}{12}$ **B. $\frac{11}{12}$** C. $\frac{5}{6}$ D. $\frac{3}{4}$



Evelyn used 3 ounces of red paint, $2 \frac{3}{4}$ ounces of blue paint, and $\frac{7}{12}$ ounces of green paint. How many ounces of paint did Evelyn use altogether? ← addition

- A. $5 \frac{1}{3}$ B. $5 \frac{5}{12}$ **C. $6 \frac{1}{3}$** D. $6 \frac{5}{12}$

On Sunday, $5 \frac{1}{2}$ inches of snow fell. On Monday, $3 \frac{5}{6}$ inches of snow fell. How many more inches of snow fell on Sunday than on Monday? ← subtraction

- A. $1 \frac{2}{3}$** B. $1 \frac{1}{6}$ C. $2 \frac{2}{3}$ D. $2 \frac{2}{6}$

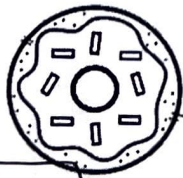


$$5 \frac{1 \times 3}{2 \times 3} - 3 \frac{5}{6} \rightarrow 4 \frac{9}{6} - 3 \frac{5}{6} \rightarrow 4 \frac{9}{6} - 3 \frac{5}{6} = 1 \frac{4}{6} = 1 \frac{2}{3}$$

Free Response. Solve each word problem below. Simplify.

Izzy bought $3 \frac{3}{4}$ dozen glazed doughnuts and $2 \frac{2}{3}$ dozen of chocolate sprinkled doughnuts. How many dozen doughnuts did Izzy buy in all? ← addition

$$\frac{3 \times 3}{4 \times 3} + \frac{2 \times 4}{3 \times 4} = \frac{9}{12} + \frac{8}{12} = \frac{17}{12} = 1 \frac{5}{12}$$



An ice cream shop sold $6 \frac{1}{6}$ gallons of vanilla ice cream and $4 \frac{3}{4}$ gallons of chocolate ice cream. How many gallons of ice cream were sold altogether? ← addition

$$6 \frac{1 \times 2}{6 \times 2} + 4 \frac{3 \times 3}{4 \times 3}$$

$$6 \frac{2}{12} + 4 \frac{9}{12} = 10 \frac{11}{12}$$



Comparing Fractions. Use the $>$, $<$, or $=$ symbol to compare the fractions.

$$\frac{9 \times 3}{9 \times 5} \boxed{<} \frac{7 \times 5}{9 \times 5}$$

$$\frac{27}{45} < \frac{35}{45}$$

$$\frac{11 \times 3}{11 \times 6} \boxed{<} \frac{7 \times 6}{11 \times 6}$$

$$\frac{33}{66} < \frac{42}{66}$$

$$\frac{12 \times 1}{12 \times 5} \boxed{<} \frac{5 \times 5}{12 \times 5}$$

$$\frac{12}{60} < \frac{25}{60}$$

Ordering Fractions. Order the fractions from least to greatest.

$$\frac{7 \times 8}{9 \times 72} \quad \frac{2 \times 9}{8 \times 72} \quad \frac{1 \times 36}{2 \times 72}$$

$$\frac{2}{8}, \frac{1}{2}, \frac{7}{9}$$

$$\frac{8}{9}, \frac{7}{9}, \frac{10}{9} = 1\frac{1}{9}$$

$$\frac{7}{9}, \frac{8}{9}, \frac{10}{9} \text{ or } 1\frac{1}{9}$$

$$\frac{2 \times 1}{2 \times 2} \quad \frac{21}{42} \quad \frac{10}{6} = 1\frac{4}{6} = 1\frac{2}{3}$$

$$\frac{1}{2}, \frac{11}{7}, \frac{10}{6}$$

$$\frac{45 \times 3}{7 \times 315} \quad \frac{135}{5 \times 315} \quad \frac{3 \times 7}{9 \times 315} \quad \frac{3 \times 35}{9 \times 315}$$

$$\frac{3}{5}, \frac{3}{9}, \frac{3}{7}$$

$$\frac{9 \times 7}{10 \times 70} \quad \frac{3 \times 10}{7 \times 70} \quad \frac{7 \times 10}{7 \times 70}$$

$$\frac{3}{7}, \frac{9}{10}, \frac{7}{7}$$

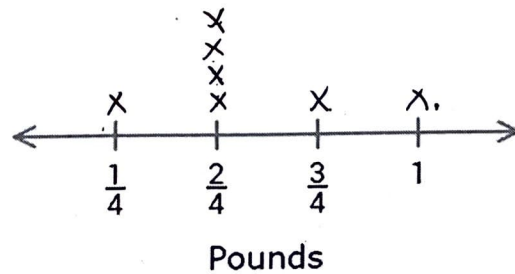
$$\frac{1 \times 15}{12 \times 180} \quad \frac{9 \times 26}{5 \times 180} \quad \frac{6 \times 20}{9 \times 180}$$

$$\frac{1}{12}, \frac{6}{9}, \frac{9}{5}$$

Line Plots. Create and interpret the line plot using the data below.

Dave went to the post office to mail holiday gifts to his cousins. He weighed each gift package to make sure he added enough stamps to the packages.

Weight of gift packages	
Cousin receiving package	Pounds
Nicole	$\frac{3}{4}$ ✓
Mateo	$\frac{1}{4}$ ✓
Heather	$\frac{2}{4}$ ✓
Brooke	$\frac{2}{4}$ ✓
Eddie	1 ✓
Colin	$\frac{2}{4}$ ✓
Perry	$\frac{2}{4}$ ✓



How many packages weighed less than $\frac{3}{4}$ pound? 5

What is the total weight of all the packages? 4 pounds

What is the mean weight of all gift packages? $\frac{4}{7}$ pound

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