

5.NF.A.2 Estimating and Comparing Unlike Fractions

5.NF.A.2: Solve word problems involving addition and subtraction of fractions.

1. Find the sum or the difference. Write your answer in simplest form.

a. $\frac{3}{4} + \frac{3}{8}$

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

c. $\frac{4}{7} - \frac{5}{14}$

d. $\frac{7}{9} - \frac{6}{18}$

Answers:

a.

b.

c.

d.

2. Estimate to compare. Write $>$, $<$, or $=$ for each box.

a. $\frac{2}{8} + \frac{4}{16}$ $\frac{1}{2}$

c. $\frac{1}{3} + \frac{4}{6}$ $\frac{1}{2}$

b. $\frac{3}{9} - \frac{2}{9}$ $\frac{1}{5}$

d. $\frac{15}{4} - \frac{15}{8}$ 1

3. Use the table to answer the questions.

- Is Marco's budget for transportation greater than his savings? By how much?
- Which has a bigger budget distribution – food or project?
- If Marco's supposed to be savings were spent on food, what fraction of the budget will the food be?
- Is his weekly budget distribution correct? (Hint: For a correct weekly budget, all the fractions should add to 1.)

Marco's Weekly Budget

Budget	Fraction
Food	$\frac{1}{3}$
Transportation	$\frac{2}{6}$
Project	$\frac{1}{8}$
Savings	$\frac{5}{24}$

Answers:

a.

b.

c.

d.

4. True or False:

"Equivalent and like fractions have a similar meaning."

Answer:

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Answer Key

5.NF.A.2: Solve word problems involving addition and subtraction of fractions.

1. Find the sum or the difference. Write your answer in simplest form.

a. $\frac{3}{4} + \frac{3}{8}$

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

c. $\frac{4}{7} - \frac{5}{14}$

d. $\frac{7}{9} - \frac{6}{18}$

Answers:

a. $1\frac{1}{8}$

b. $\frac{2}{5}$

c. $\frac{3}{14}$

d. $\frac{4}{9}$

2. Estimate to compare. Write $>$, $<$, or $=$ for each box.

a. $\frac{2}{8} + \frac{4}{16}$ $=$ $\frac{1}{2}$

c. $\frac{1}{3} + \frac{4}{6}$ $>$ $\frac{1}{2}$

b. $\frac{3}{9} - \frac{2}{9}$ $<$ $\frac{1}{5}$

d. $\frac{15}{4} - \frac{15}{8}$ $>$ 1

3. Use the table to answer the questions.

- Is Marco's budget for transportation greater than his savings? By how much?
- Which has a bigger budget distribution – food or project?
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- Is his weekly budget distribution correct? (Hint: For a correct weekly budget, all the fractions should add to 1.)

Marco's Weekly Budget

Budget	Fraction
Food	$\frac{1}{3}$
Transportation	$\frac{2}{6}$
Project	$\frac{1}{8}$
Savings	$\frac{5}{24}$

Answers:

a. Yes, by $\frac{1}{8}$

b. Food

c. $\frac{13}{24}$

d. Yes

4. True or False:

"Equivalent and like fractions have a similar meaning."

Answer:

False