

Mixed Addition and Subtraction

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1a. Anna and Tom are discussing the calculation below.

$$3\frac{1}{4} + 2\frac{1}{2} = 5\frac{3}{4}$$



If I change the calculation to
 $4\frac{2}{8} + 1\frac{1}{2}$
 the answer will be the same.

Anna

If I change the calculation to
 $2\frac{2}{4} + 3\frac{4}{8}$
 the answer will be the same.



Tom

Who is correct? Prove it.



R

1b. Steph and Will are discussing the calculation below.

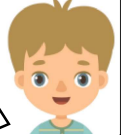
$$6\frac{7}{10} - 2\frac{3}{5} = 4\frac{1}{10}$$



If I change the calculation to
 $6\frac{4}{5} - 2\frac{3}{10}$
 the answer will be the same.

Steph

If I change the calculation to
 $10\frac{14}{20} - 6\frac{6}{10}$
 the answer will be the same.



Will

Who is correct? Prove it.



R

2a. Find the missing values.

$$\begin{array}{ccc} & \frac{3}{4} & \\ 6\frac{\square}{8} & 2\frac{1}{4} & 1\frac{4}{16} \\ & \square\frac{1}{2} & \end{array} = 9\frac{3}{4}$$

$$= 4\frac{1}{2}$$



PS

2b. Find the missing values.

$$\begin{array}{ccc} & 10\frac{23}{24} & \\ 2\frac{1}{4} & 5\frac{3}{8} & 1\frac{\square}{4} \\ & 3\frac{1}{12} & \end{array} = 8\frac{7}{8}$$

$$= 2\frac{\square}{2}$$



PS

3a. Tia completed this calculation:

$$1\frac{1}{12} + 1\frac{5}{6} = 2\frac{12}{12}$$

Is she correct?

Prove it.



R

3b. Benji completed this calculation:

$$\frac{5}{4} + 1\frac{4}{8} = 1\frac{6}{8}$$

Is he correct?

Prove it.



R

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4a. Ross and Grace are discussing the calculation below.

$$4\frac{1}{6} + 4\frac{1}{2} = 8\frac{4}{6}$$



Ross

If I change the calculation to
 $5\frac{1}{3} + 3\frac{2}{6}$
 the answer will be the same.

If I change the calculation to
 $\frac{19}{4} + \frac{25}{6}$
 the answer will be the same.



Grace

Who is correct? Prove it.



R

Mixed Addition and Subtraction

4b. Chris and Jess are discussing the calculation below.

$$8\frac{1}{3} - 4\frac{2}{5} = 3\frac{14}{15}$$



Chris

If I change the calculation to
 $5\frac{3}{4} - 2\frac{4}{10}$
 the answer will be the same.

If I change the calculation to
 $\frac{25}{3} - \frac{22}{5}$
 the answer will be the same.



Jess

Who is correct? Prove it.



R

5a. Find the missing values.

$$\begin{array}{ccc} & 1\frac{3}{5} & \\ 10\frac{\square}{4} & 6\frac{1}{8} & 2\frac{3}{12} \\ & \square\frac{3}{4} & \end{array} = 2\frac{9}{24}$$

$$= 9\frac{19}{40}$$



PS

5b. Find the missing values.

$$\begin{array}{ccc} & 12\frac{4}{5} & \\ 7\frac{\square}{5} & 1\frac{1}{9} & 7\frac{1}{5} \\ & 7\frac{2}{5} & \end{array} = 15\frac{32}{45}$$

$$= 4\frac{\square}{45}$$



PS

6a. Martin completed this calculation:

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

Is he correct?

Prove it.



R

6b. Rachael completed this calculation:

$$7\frac{4}{5} - \frac{15}{10} - 1\frac{2}{10} = 5\frac{1}{10}$$

Is she correct?

Prove it.



R

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7a. Dan and Tina are discussing the calculation below.

$$6\frac{4}{8} + 5\frac{3}{9} = 11\frac{5}{6}$$



Dan

If I change the calculation to

$$8\frac{11}{12} + 2\frac{8}{9}$$

the answer will be the same.

If I change the calculation to

$$2\frac{4}{12} + 9\frac{2}{4}$$

the answer will be the same.



Tina

Who is correct? Prove it.



R

7b. Rob and Aisha are discussing the calculation below.

$$\frac{58}{7} - \frac{28}{12} = 5\frac{20}{21}$$



Rob

If I change the calculation to

$$8\frac{2}{7} - 2\frac{2}{6}$$

the answer will be the same.

If I change the calculation to

$$\frac{71}{7} - \frac{17}{3}$$

the answer will be the same.



Aisha

Who is correct? Prove it.



R

8a. Find the missing values.

$$\begin{array}{ccccc} & \boxed{}\frac{11}{12} & & & \\ & | & & & \\ 2\frac{4}{9} & 6\frac{1}{3} & \boxed{}\frac{1}{3} & = & 13\frac{1}{9} \\ & | & & & \\ & 2\frac{1}{4} & & & \\ & | & & & \\ & = 2\frac{1}{3} & & & \end{array}$$



PS

8b. Find the missing values.

$$\begin{array}{ccccc} & 9\frac{4}{5} & & & \\ & | & & & \\ 13\frac{1}{7} & 4\frac{2}{7} & \boxed{}\frac{2}{5} & = & 25\frac{29}{35} \\ & | & & & \\ & \boxed{}\frac{1}{7} & & & \\ & | & & & \\ & = 1\frac{13}{35} & & & \end{array}$$



PS

9a. Paddy completed this calculation:

$$7\frac{6}{7} - \frac{1}{4} - 3\frac{1}{2} = 4\frac{3}{28}$$

Is he correct?

Prove it.



R

9b. Marta completed this calculation:

$$12\frac{7}{9} + \frac{1}{3} + 3\frac{1}{6} = 16\frac{7}{18}$$

Is she correct?

Prove it.



R