

Name \_\_\_\_\_

FRACTIONS ADDITION & SUBTRACTION

## Subtracting Mixed Numbers with Unrelated Denominators Horizontally

To subtract mixed numbers with related and unrelated denominators, one of the wholes may need to be converted to make more fraction parts before subtracting.

$$3 \frac{1}{5} - 1 \frac{2}{3} = 3 \frac{3}{15} - 1 \frac{10}{15} = 2 \frac{18}{15} - 1 \frac{10}{15} = 1 \frac{8}{15}$$

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1) 3

2) 2

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3)  $3 \frac{1}{3} - 1 \frac{2}{5} =$  \_\_\_\_\_  $=$  \_\_\_\_\_  $=$  \_\_\_\_\_

4)  $3 \frac{2}{4} - 1 \frac{4}{6} =$  \_\_\_\_\_  $=$  \_\_\_\_\_  $=$  \_\_\_\_\_

5)  $2 \frac{1}{3} - 1 \frac{5}{8} =$  \_\_\_\_\_  $=$  \_\_\_\_\_  $=$  \_\_\_\_\_

Name \_\_\_\_\_

FRACTIONS ADDITION & SUBTRACTION

## Subtracting Mixed Numbers with Unrelated Denominators Vertically

To subtract mixed numbers with related and unrelated denominators, one of the wholes may need to be converted to make more fraction parts before subtracting.

$$\begin{array}{r}
 1) \quad 4 \frac{2}{4} \quad 4 \frac{6}{12} \quad 3 \frac{18}{12} \\
 - \quad 2 \frac{2}{3} \quad 2 \frac{8}{12}
 \end{array}$$



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1)

Subtract these. Don't forget to simplify the answer where possible.

4)  $2 \frac{1}{3}$

5)  $3 \frac{3}{5}$

6)  $3 \frac{1}{6}$

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

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

-  $1 \frac{6}{9}$

# ANSWERS

Name \_\_\_\_\_

FRACTIONS ADDITION & SUBTRACTION

## Subtracting Mixed Numbers with Unrelated Denominators Horizontally

To subtract mixed numbers with related and unrelated denominators, one of the wholes may need to be converted to make more fraction parts before subtracting.

$$3 \frac{1}{5} - 1 \frac{2}{3} = 3 \frac{3}{15} - 1 \frac{10}{15} = 2 \frac{18}{15} - 1 \frac{10}{15} = 1 \frac{8}{15}$$

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1) 3

2) 2

$$3) \quad 3 \frac{1}{3} - 1 \frac{2}{5} = \underline{2 \frac{4}{3} - 1 \frac{2}{5}} = \underline{2 \frac{20}{15} - 1 \frac{6}{15}} = \underline{1 \frac{14}{15}}$$

$$4) \quad 3 \frac{2}{4} - 1 \frac{4}{6} = \underline{2 \frac{6}{4} - 1 \frac{4}{6}} = \underline{2 \frac{18}{12} - 1 \frac{8}{12}} = \underline{1 \frac{5}{6}}$$

$$5) \quad 2 \frac{1}{3} - 1 \frac{5}{8} = \underline{2 \frac{4}{3} - 1 \frac{5}{8}} = \underline{2 \frac{32}{24} - 1 \frac{15}{24}} = \underline{1 \frac{17}{24}}$$