Name: _____ Date: _____

MathByExample

Basic Operations with Fractions

Multiplication and Division Expressions with Fractions

CCSS 5.OA.A.1 & 5.OA.A.2

SET ONE

1. Study Kareem's correct work.

Name: Kareem

Write an expression to match the phrase. Then find the unknown.

Five times the quotient of 1 divided by 2

$\frac{1}{2} \times 5$ | $5 \times \frac{1}{2}$

$\frac{5}{2}$ | $\frac{5}{2}$

2. Answer these questions.

- Kareem could not decide which expression he wanted to use, so he wrote both. Why was it okay for him to begin one expression with $\frac{1}{2}$ and the other with 5?

- Write another expression that also represents this phrase.

3. Then complete this one.

Write an expression to match the phrase. Then find the unknown.

Three times the quotient of 4 divided by 6

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Multiplication and Division Expressions with Fractions, continued

SET TWO

1. Study Makayla's incorrect work.

Name: Makayla

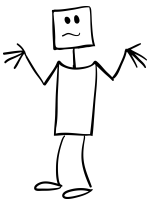
Write an expression to match the phrase. Then find the unknown.

Add 3 to $\frac{1}{2}$ of 24

$3 + \frac{1}{2} \times 24$

$3\frac{1}{2} \times 24$

84



2. Answer these questions.

- In the step marked with an arrow, Makayla did not follow the order of operations. What operation should she have performed first?

- Do $3 + \frac{1}{2} \times 24$ and $3 + (\frac{1}{2} \times 24)$ mean the same thing? Explain.

3. Then complete this one.

Write an expression to match the phrase. Then find the unknown.

Add 9 to $\frac{2}{3}$ of 15

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