Name: _____ Date: _____

MathByExample

Decimals and Fractions

Multiplying Fractions and Whole Numbers

CCSS 4.NF.B.4.B

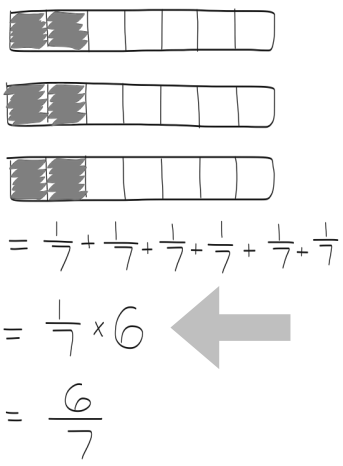
SET ONE

1. Study Natasha's correct work.

Name: Natasha

Solve.

$\frac{2}{7} \times 3 = \frac{6}{7}$



$= \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$

$= \frac{1}{7} \times 6$

$= \frac{6}{7}$

2. Answer these questions.

- Why did Natasha draw three diagrams?

- Look at the step marked with an arrow. Why is it okay for Natasha to write $\frac{1}{7} \times 6$ when the original problem was $\frac{2}{7} \times 3$?

3. Then complete this one.

Solve.

$\frac{2}{5} \times 4 =$

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Multiplying Fractions and Whole Numbers, continued

SET TWO

1. Study Eric's incorrect work.

X

Name: Eric

Solve.

$\frac{4}{6} \times 5 = \frac{20}{30}$

$\frac{4}{6} \times 5 =$

$\frac{4}{6} \times \frac{5}{5} = \frac{20}{30}$

2. Answer these questions.

- What whole number is equivalent to $\frac{5}{5}$?

- What fraction should Eric have multiplied $\frac{4}{6}$ by instead? Explain.

3. Then complete this one.

Solve.

$\frac{3}{4} \times 7 =$

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