

Challenge Problems

4.2

NAME _____

Module 4 **Fractions, Decimals, Percents, and Factors**
Lesson 2 **Concepts of Decimal Place Value and Fraction and Percent Equivalents**

Set 1



Explain how to use a model to show that 0.2 and 0.20 represent the same value.

Set 2

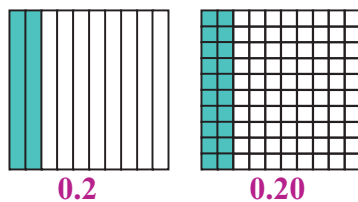


Use a model to show $\frac{3}{5} = 0.6 = 60\%$.

Possible Answers

Set 1

1. Model 0.2 in a tenths-square and 0.20 in a hundredths-square. Equal parts are shaded in both figures, so the decimals represent the same value.



Set 2

1. Model $\frac{3}{5}$ as three shaded parts out of five equal parts; $0.6 = \frac{6}{10}$, or six shaded parts out of 10 equal parts; $60\% = \frac{60}{100}$, or 60 shaded parts in a hundredths-square. Equal parts are shaded in all three figures, so the decimals represent the same value.

