

Name: _____
Ms. Napolitano

Date: _____
Activity: _____

Topic: Terminating and Repeating Decimals
EQ: How do we determine terminating and repeating decimals?
CCSS: 7.NS.A.2d

Homework

- 1** Monique makes 18 out of 27 shots in a basketball game.

Which decimal represents the fraction of shots Monique makes?

- A 1.5
- B $1.\bar{5}$
- C 0.6
- D $0.\bar{6}$

- 2** Scott correctly writes each fraction below as a decimal. Will the decimal Scott writes for each fraction terminate or repeat?

Choose *Terminates* or *Repeats* for each fraction.

- a. $\frac{7}{15}$ Terminates Repeats
- b. $\frac{3}{15}$ Terminates Repeats
- c. $\frac{8}{15}$ Terminates Repeats
- d. $\frac{6}{15}$ Terminates Repeats

- 3** Camille is taking a quiz on a computer. The computer says her score is 0.625. Which fractions are equivalent to 0.625?

Choose all that apply.

- A $\frac{15}{24}$
- B $\frac{19}{32}$
- C $\frac{11}{16}$
- D $\frac{5}{8}$

- 4 Jacob uses division to correctly write each fraction below as a decimal.

$$\frac{1}{9} \quad \frac{3}{9} \quad \frac{5}{9}$$

Part A

Show how Jacob arrived at his answers. Use division to find the decimal equivalent for each fraction.

Show your work.

Answers: $\frac{1}{9} =$ _____ $\frac{3}{9} =$ _____ $\frac{5}{9} =$ _____

Part B

Jacob sees a pattern in fractions with a denominator of 9. He says he knows by looking at the numerator whether the equivalent decimal will be a repeating decimal.

Write *always*, *sometimes*, or *never* in each blank to correctly complete Jacob's pattern.

For fractions of the form $\frac{n}{9}$, where n is a positive integer:

- If $n < 9$, the decimal equivalent is _____ repeating.
 - If $n > 9$, the decimal equivalent is _____ repeating.
 - If n is a multiple of 9, the decimal equivalent is _____ repeating.
- 5 Alana needs $4\frac{1}{3}$ pounds of ground turkey to make a recipe. She has 4.35 pounds of ground turkey. Does Alana have enough ground turkey to make her recipe? Explain your answer.
