

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 (11)

- 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.

---

---

---

---

---