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 $1.\overline{5}$

C   0.6

D $0.\overline{6}$

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.

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

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.

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