

NAME: _____



Purpose

To find exact or approximate decimal equivalents for fractions

Math Words

approximately equal to

Ninety-nine hundredths is approximately equal to 1.
We write: $0.99 \approx 1$.

approximate

When an amount is close to the exact amount, it is approximate.

repeats

A digit (or digits) in a decimal that repeats forever has a bar drawn over it. $0.111 \dots = 0.\overline{1}$.

Starter Problem

Grandfather called to say that it rained 0.28 of an inch on his farm. My dad says it rained about $\frac{1}{3}$ of an inch in town. Approximately how many hundredths is $\frac{1}{3}$?

$$\frac{1}{3} \approx \underline{\hspace{2cm}}$$

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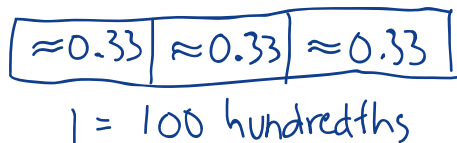
$$\frac{1}{3} \approx \underline{\hspace{2cm}}$$

Student Thinking



Bobby

I drew a rectangle to show 100 hundredths. Each third is 33 hundredths with 1 hundredth left over. I wrote ≈ 0.33 on each part because $\frac{1}{3}$ is a little bit more than 33 hundredths.



$$\frac{1}{3} \approx \underline{0.33}$$



Caitlin

I just made $\frac{1}{3}$ into hundredths by changing the fraction bar into a decimal point. It's .13.



$$\frac{1}{3} \approx \underline{.13}$$

Things to Remember

- * _____
- * _____
- * _____



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Our Turn

Write a decimal in hundredths or thousandths that is equal or approximately equal to the given fraction. Draw a picture to help you figure it out.

1. $\frac{3}{4} = 0.______$

2. $\frac{5}{6} \approx 0.______$

3. $\frac{3}{8} = 0.______$

My Turn

1. $\frac{2}{9} \approx 0.\underline{\quad}\underline{\quad}$

2. $\frac{3}{10} = 0.______$

3. $\frac{1}{6} \approx 0.\underline{\hspace{0.5cm}}\underline{\hspace{0.5cm}}\underline{\hspace{0.5cm}}$

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Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. $\frac{1}{8}$ is equal to _____☐ 0.018☐ 1.8☐ 0.25☐ 0.1252. $\frac{1}{9}$ is approximately equal to _____☐ 1.9☐ 0.11☐ 0.19☐ 0.9

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Writing Task Mini Lesson

Explain how you know that $\frac{2}{3}$ is approximately equal to 0.66. You may draw a picture on the back to help you explain.



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