NAME:

Purpose

To find percent equivalencies for common fractions

Math Words

divide by	When we say divide 1 by 3, we write $1 \div 3$ or $3\overline{)1}$.
tenth of one percent	Write a tenth of one percent as 0.1% or .1%.
repeating decimal	The bar over the 6 in the repeating decimal $0.1\overline{6}$ means that the six repeats forever.

Starter Problem

Write a percent that is equal to the given fraction. Think about the meaning.

$$\frac{1}{3} = \underline{\hspace{2cm}}\%$$

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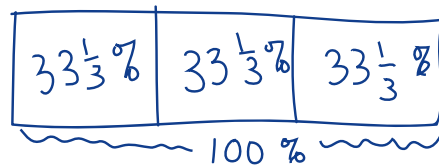Write a percent that is equal to the given fraction. Think about the meaning.

$$\frac{1}{3} = \underline{\hspace{2cm}} \%$$

Student Thinking

Hank

I know 1/3 can mean 1 divided into 3 equal parts or 100% divided into 3 equal parts. That is 33% for each part with 1% more to share. Each part is thirty-three and one third percent. I can also divide 1 by 3 and then change the decimal to a percent.

OK

$$\boxed{33\frac{1}{3}\% \mid 33\frac{1}{3}\% \mid 33\frac{1}{3}\%}$$
$$\underbrace{\hspace{3cm}}_{100\%}$$

$$\begin{array}{r} 0.33\overline{3} \\ 3\overline{)1.000} \\ \underline{9} \\ 10 \\ \underline{9} \\ 10 \end{array}$$

Miriam

I changed $\frac{1}{3}$ to a decimal then made it a percent.

Pitfall

$$.13 = .13\%$$

Things to Remember

✳ ....

....

✳ ....

....

STOP

NAME:

Our Turn

Write a percent that is equivalent to the given fraction.

1. $\dfrac{1}{8}$ = _____ %

2. $\dfrac{3}{20}$ = _____ %

3. $\dfrac{4}{5}$ = _____ %

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My Turn

Write a percent that is equivalent to the given fraction.

1. $\dfrac{1}{10}$ = _____ %

2. $\dfrac{3}{4}$ = _____ %

3. $\dfrac{3}{8}$ = _____ %

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Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. $\dfrac{2}{3}$ = _____

   ○ $33\dfrac{1}{3}$ %   ○ $66\dfrac{2}{3}$ %   ○ 23%   ○ not given

2. $\dfrac{3}{10}$ = _____

   ○ 310%   ○ 3.1%   ○ 30%   ○ not given

✂ -

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Writing Task Mini Lesson

Explain how you know that $\frac{2}{5}$ is equal to 40%. You may make a drawing to help you explain.