Lesson 7: Converting a Common Fraction to a Decimal Fraction

Time allowed: One lesson, 30 mins **Worksheets:** 22-23

Intended outcomes:

- For the student to be able to convert a common fraction to a decimal using tenths or hundredths.

Curriculum standards:

US 4NF Understand decimal notation for fractions, and compare decimal fractio .
4NF.6 Use decimal notation for fractions with denominators 10 or 100.
4 NF.7 Compare two decimals to hundredths by reasoning about their size.

Aust ACMNA079 Make connections between fractions and decimal notation...using knowledge of fractions to establish equivalences between fractions and decimal notati

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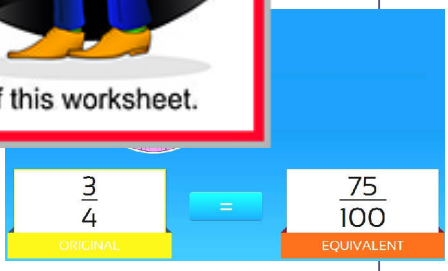
a) Dis

b) Exp enths, hur

c) Wri

d) Dis Exp writ as well, such as $\frac{5}{5}$, so that students are aware that one whole is ten tenths.



e) Complete **Worksheet 22**.

f) Display $\frac{3}{4}$. Show that this fraction cannot be converted to tenths but it will change to 100ths. Write the decimal equivalent.

g) Complete **Worksheet 23**.

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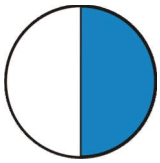
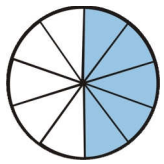
Name _____

Cut each Fractional Piece into Tenths

Equivalent fractions example:

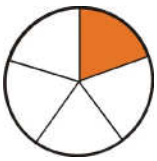


$\frac{1}{2} = \frac{5}{10}$

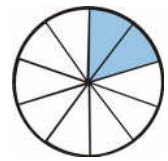


so

$\frac{1}{2} = \boxed{0.5}$



$\frac{1}{5} = \frac{2}{10}$



so

$\frac{1}{5} = \boxed{}$

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2 10

so

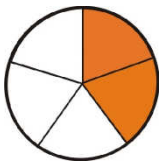
$\frac{1}{2} = \boxed{0.}$

5 10

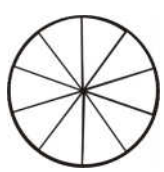
so

$\frac{4}{5} = \boxed{}$

3)



$\frac{2}{5} = \frac{4}{10}$



so

$\frac{2}{5} = \boxed{}$

Write the decimal equivalent of each of these fractions.

$\frac{2}{5} = \boxed{}$ $\frac{1}{5} = \boxed{}$ $\frac{1}{2} = \boxed{}$

$\frac{3}{5} = \boxed{}$ $\frac{4}{5} = \boxed{}$ $\frac{5}{5} = \boxed{}$

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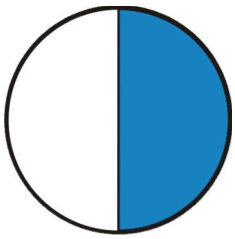
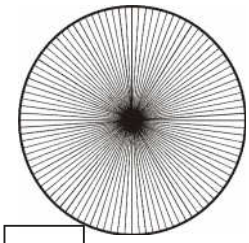
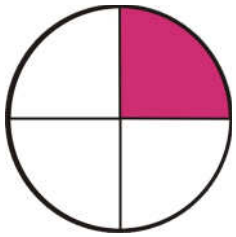
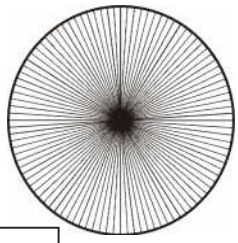
Name _____

Cut each Fractional Piece into Hundredths

Equivalent fractions example:

$\frac{1}{2} = \frac{\quad}{100}$ $\frac{1}{4} = \frac{\quad}{100}$

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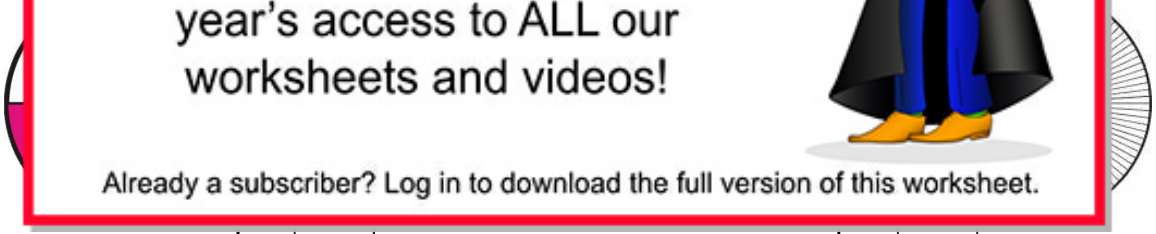
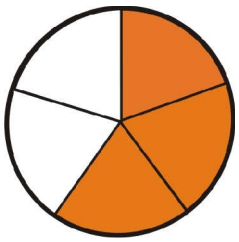
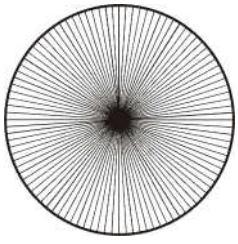


$\frac{3}{4} =$ ☐ so $\frac{3}{4} =$ 0.

$\frac{1}{5} =$ ☐ so $\frac{1}{5} =$ ☐

2)

$\frac{3}{5} =$ ☐ so $\frac{3}{5} =$ ☐

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