6.1

Percents & Decimals

REVIEW: CONVERTING DECIMALS TO FRACTIONS

Convert the following decimals into fractions:

1) .6

2) .15

3) .75

4) .045

5) .125

REVIEW: CONVERTING FRACTIONS TO DECIMALS

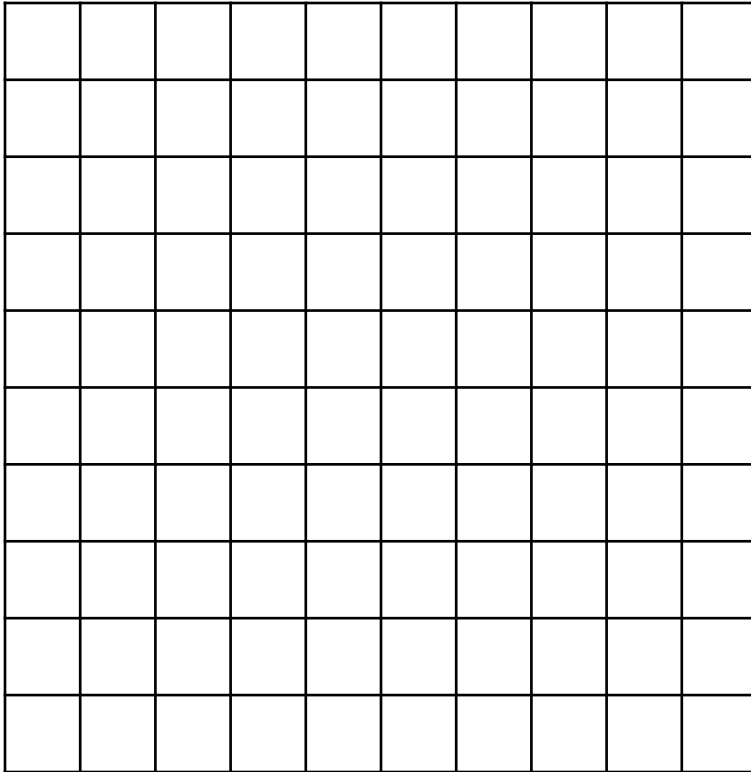**Convert the following fractions into decimals:**

6) $\dfrac{3}{5} =$

7) $\dfrac{1}{4} =$

What is a percent?

Percent means "Out of 100" or "Per 100"

Converting a percent to a fraction

1) 18%

2) 40%

3) 75%

4) 50%

- **Put over 100**
- **Simplify**

$$19\% = \frac{19}{100} = .19$$

DOOP

Decimal
Percent

Converting...

DOOP

Decimal — Percent

Convert the following into decimals:

1) 48%   2) 9%

3) 75.5%

Convert the following into percents:

4) 0.13   5) 0.04

6) 0.027

Converting again...

DOOP

Decimal   Percent

Convert the following into decimals:

7) .3%   8) .0017%

9) 350%

Convert the following into percents:

10) 0.005   11) 5.8

12) 0.00093

Converting Fractions to Percents

1) $\dfrac{9}{10}$

2) $\dfrac{4}{5}$

3) $\dfrac{17}{25}$

4) $\dfrac{1}{8}$

5) $\dfrac{5}{16}$

6) $\dfrac{4}{9}$

Applying Fractions, Decimals and Percents

On a math test, you get 92 out of a possible 100 points. Which of the following is <u>not</u> another way of expressing 92 out of 100?

$a) \ \dfrac{23}{25}$ $\qquad$ $b) \ 92\%$ $\qquad$ $c) \ \dfrac{17}{20}$ $\qquad$ $d) \ .92$

Applying Fractions, Decimals and Percents

Write "18 out of 100" as a percent, a fraction, and a decimal.

Percent: _____

Fraction: _____

Decimal: _____

Real Life Application

The figure shows the portions of ultraviolet (UV) rays reflected by four different surfaces. How many times more UV rays are reflected by water than by seafoam?

3%
Grass

0.15
Sand

25%
Sea foam

$\dfrac{21}{25}$
Water

Sea foam: **Water:**

How many times more UV rays are reflected by water than by sand?

Water: **Sand:**