

6th Grade  
Jan 13, 2021

Today we will:

- review yesterday's WS
- do Smartboard activities

Are there any THQs to be turned in?

HOMEWORK:

Start studying for quiz Friday

ALEKS assignment:  
60 min and 5 topics  
due TONIGHT by  
11:59pm



## Lesson 3 Homework Practice

### Percents and Decimals

Express each percent as a decimal.

1. 29%

0.29

2. 63%

0.63

3. 4%  $\rightarrow$  per 100

0.04

$\frac{4}{100}$

4. 9%

0.09

$\frac{9}{100}$

5. 48%

0.48

6. 16%

0.16

7. 10%

0.1 or 0.10

8. 32%

0.32

9. **ENERGY** The United States gets about 39% of its energy from petroleum. Write 39% as a decimal.

0.39

10. **SCIENCE** About 8% of the earth's crust is made up of aluminum. Write 8% as a decimal.

0.08

Express each decimal as a percent.

11. 0.45

45%

12. 0.12

12%

13. 0.68

68%

14. 0.73

73%

15. 0.2

20%

16. 0.7

70%

17. 0.95

95%

18. 0.46

46%

$$\frac{2}{10} \times \frac{10}{10} = \frac{20}{100}$$

$$\frac{7}{10} \times \frac{10}{10} = \frac{70}{100}$$

19. **POPULATION** In 2000, the number of people 65 years and older in Arizona was 0.13 of the total population. Write 0.13 as a percent.

13%

20. **GEOGRAPHY** About 0.41 of Hawaii's total area is water. What percent is equivalent to 0.41?

41%

Replace each ● with <, >, or = to make a true sentence.

21. 26% ● 0.3

26% < 30%

22. 0.9 ● 9%

$\frac{9}{100} = 0.09$   
0.9 > 0.09

23. 47% ● 47%

47% > 47%

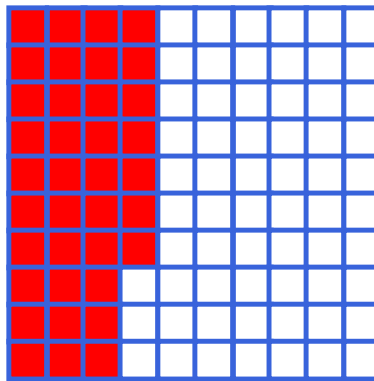
24. **ANALYZE TABLES** A batting average is the ratio of hits to at bats. Batting averages are expressed as a decimal rounded to the nearest thousandth. Show two different ways of finding how much greater Derek Jeter's batting average was than Jorge Posada's batting average. Express as a percent.

New York Yankees, 2009 Batting Statistics	
Player	Batting Average
Derek Jeter	0.334
Alex Rodriguez	0.286
Jorge Posada	0.285
Hideki Matsui	0.274

$$\begin{array}{r} 0.334 \\ - 0.285 \\ \hline 0.049 \end{array} \rightarrow \begin{array}{r} 33.4\% \\ - 28.5\% \\ \hline 4.9\% \end{array}$$



## Fraction, decimal, percent



Fraction

$$\frac{37}{100}$$

Decimal

.37

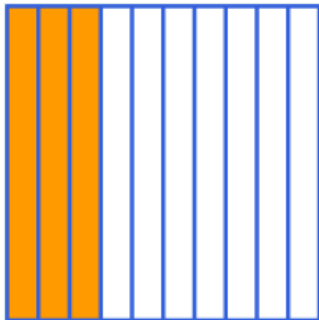
Percent

37%

ANSWER ●

## Fractions, decimal, percents

HINT



Fraction

$$\frac{3}{10}$$

Decimal

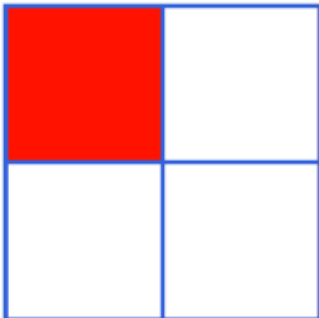
$$0.30$$

Percent

$$30\%$$

ANSWER

HINT



Fraction

$$\frac{1}{4}$$

Decimal

$$.25$$

Percent

$$25\%$$

ANSWER

## Fractions, decimal, percents

HINT



Fraction

$$\frac{2}{5}$$

Decimal

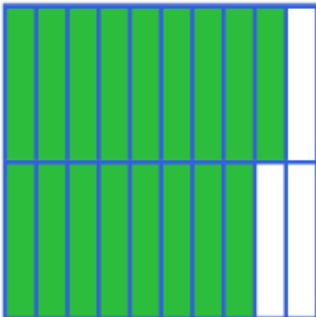
$$0.4$$

Percent

$$40\%$$

ANSWER

HINT



Fraction

$$\frac{17}{20}$$

Decimal

$$0.85$$

Percent

$$85\%$$

ANSWER

## Fraction to decimal to percent

Fraction

$$\frac{3}{8}$$

$$\begin{array}{r} 0.375 \\ 8 \overline{) 3.000} \\ \underline{24} \phantom{00} \\ 60 \\ \underline{56} \phantom{0} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

37.5%

● CLICK

● CLICK



## Match Fractions, decimals, and percents

0.001

25%

$\frac{1}{4}$

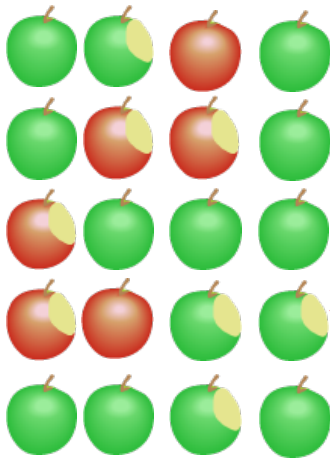
Fraction	Decimal	Percent
$\frac{1}{2}$	0.5	50%
$\frac{1}{10}$	0.1	10%
$\frac{3}{4}$	0.75	75%
$\frac{1}{5}$	0.2	20%
$\frac{1}{100}$	0.01	1%

$\frac{1}{20}$

2%

$\frac{2}{10}$

## How many apples are red?



Fraction

$$\frac{3}{10}$$

Decimal

$$0.3$$

Percent

$$30\%$$

ANSWER

DRAG

ANSWER

HINT

$$\frac{6}{20} \div \frac{2}{2} = \frac{3}{10}$$

How many apples have been bitten?

Fraction

$$\frac{2}{5}$$

Decimal

$$0.4$$

Percent

$$40\%$$

$$\frac{8}{20} \div \frac{1}{4} = \frac{2}{5} \times \frac{2}{2} = \frac{4}{10}$$

