

11-2-17

Aim: SWBAT continue to illustrate fraction, decimal, and percentage values.

HW: [Fractions Decimals Percentages WS](#)

Do Now: Write the decimal and percent representations for the following fractions.

1. three tenths
2. five eighths
3. four fifths

Do Now: Write the decimal and percent representations for the following fractions.

1. three tenths

$$\frac{1}{10} = 0.1 = 10\%$$

$$0.1 + 0.1 + 0.1 = 0.3$$

$$10\% + 10\% + 10\% = 30\%$$

2. five eighths

$$\frac{1}{8} = 0.125 = 12\frac{1}{2}\%$$

| | |
|---------|-------------------|
| 0.125 | $12\frac{1}{2}$ |
| 0.125 | $12\frac{1}{2}$ |
| 0.125 | $12\frac{1}{2}$ |
| 0.125 | $12\frac{1}{2}$ |
| + 0.125 | + $12\frac{1}{2}$ |
| 0.625 | $62\frac{1}{2}\%$ |

3. four fifths

$$\frac{1}{5} = 0.2 = 20\%$$

$$0.2 + 0.2 + 0.2 + 0.2 = 0.8$$

$$20\% + 20\% + 20\% + 20\% = 80\%$$

Name Key

Date _____

Equivalent Fractions, Decimals, and Percents

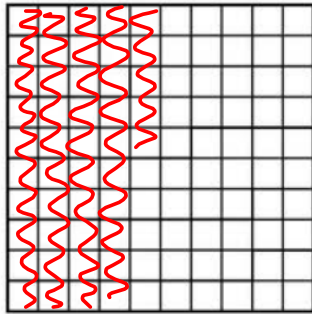
Period _____

Match the left and right column values to their equivalent value in the middle column.

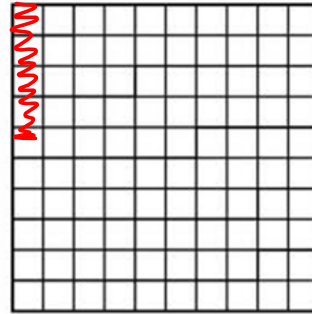
| | | | | |
|----------------|--|-------------------|--|---------------|
| $\frac{1}{10}$ | | $\frac{3}{4}$ | | 100% |
| 0.125 | | 60% | | $0.\bar{3}$ |
| 25% | | $33\frac{1}{3}\%$ | | $\frac{2}{3}$ |
| $\frac{2}{5}$ | | 0.1 | | 50% |
| 0.6 | | 40% | | 0.75 |
| 75% | | $66\frac{2}{3}\%$ | | 12.5% |
| 1 | | 0.5 | | $\frac{1}{4}$ |
| $\frac{1}{3}$ | | 0.25 | | $\frac{3}{5}$ |
| $0.\bar{6}$ | | $\frac{1}{8}$ | | 0.4 |
| $\frac{1}{2}$ | | 1 | | 10% |

Illustrating A Percent

Shade squares to represent the given percent. Then write the decimal and fraction equivalent.



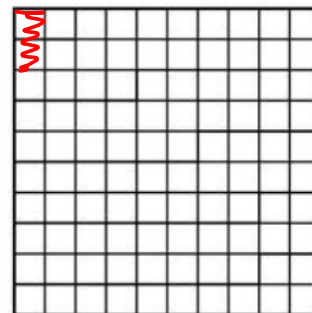
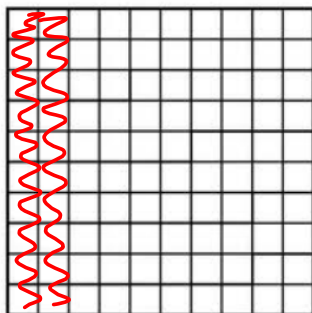
$$4.5 \times 10 = 45$$



| Percent | Decimal | Fraction |
|---------|---------|---|
| 45% | 0.45 | $\frac{45 \div 5}{100 \div 5} = \frac{9}{20}$ |

| Percent | Decimal | Fraction |
|---------|---------|---|
| 4.5% | 0.045 | $\frac{4.5 \div 5}{100 \div 5} = \frac{9}{200}$ |

$$\frac{4.5 \times 10}{100 \times 10} = \frac{45}{1000}$$



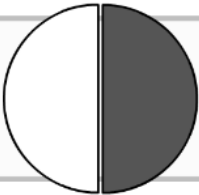
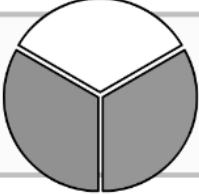
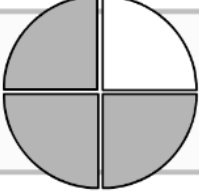
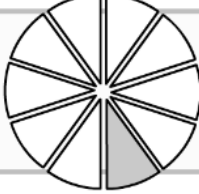
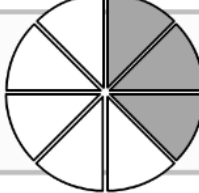
| Percent | Decimal | Fraction |
|---------|-------------|--------------------------------|
| 20% | 0.20 0.2 | $\frac{20}{100} = \frac{1}{5}$ |

| Percent | Decimal | Fraction |
|---------|---------|--------------------------------|
| 2% | 0.02 | $\frac{2}{100} = \frac{1}{50}$ |

FRACTIONS DECIMALS PERCENTAGES ①

| | FRACTION | DIVIDE NUMERATOR BY DENOMINATOR | DECIMAL | MULTIPLY BY 100 | PERCENTAGE | | |
|---|----------|---------------------------------|----------------------|-----------------|----------------------|---|----------------------|
| | | CONVERT TO FRACTION | | DIVIDE BY 100 | | | |
| | | | F | D | P | | |
| 1 | | | <input type="text"/> | = | <input type="text"/> | = | <input type="text"/> |
| 2 | | | <input type="text"/> | = | <input type="text"/> | = | <input type="text"/> |
| 3 | | | $\frac{1}{4}$ | = | 0.25 | = | 25% |
| 4 | | | <input type="text"/> | = | <input type="text"/> | = | <input type="text"/> |
| 5 | | | <input type="text"/> | = | <input type="text"/> | = | <input type="text"/> |

FRACTIONS DECIMALS PERCENTAGES ②

| | FRACTION | | DECIMAL | | PERCENTAGE | | |
|----|---|--|---|----------------------------------|---|---|---|
| | | DIVIDE NUMERATOR BY DENOMINATOR CONVERT TO FRACTION | | MULTIPLY BY 100 DIVIDE BY 100 | | | |
| | | | F | D | P | | |
| 6 |  | | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> |
| 7 |  | | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> |
| 8 |  | | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> |
| 9 |  | | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> |
| 10 |  | | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> | = | <input style="width: 40px; height: 40px;" type="text"/> |