

Lesson 8.3 Percent to Decimal and Decimal to Percent

Percent to Decimal

$$25\% = 25 \times 0.01 = 0.25$$

$$3.4\% = 3.4 \times 0.01 = 0.034$$

$$12\% = 12 \times 0.01 = 0.12$$

Notice that the decimal point is moved 2 places to the left when you multiply by 0.01.

Decimal to Percent

Rename the decimal as a fraction with a denominator of 100.

$$0.73 = \frac{0.73}{1} = \frac{0.73 \times 100}{100} = \frac{73}{100} = 73\%$$

$$0.0625 = \frac{0.0625 \times 100}{1 \times 100} = \frac{6.25}{100} = 6.25\%$$

Write the percents as decimals and the decimals as percents.

a

1. $4\% =$ _____

2. $0.51 =$ _____

3. $33\% =$ _____

4. $0.08 =$ _____

5. $0.75 =$ _____

6. $98\% =$ _____

7. $0.7 =$ _____

8. $3.5\% =$ _____

9. $0.29 =$ _____

10. $101\% =$ _____

11. $0.625 =$ _____

12. $57\% =$ _____

b

3.5 = _____

0.6% = _____

0.025 = _____

125% = _____

88% = _____

0.125 = _____

21% = _____

0.45 = _____

0.3 = _____

200% = _____

64% = _____

0.85 = _____

c

16.5% = _____

0.345 = _____

15% = _____

0.63 = _____

0.478 = _____

4.5% = _____

0.23 = _____

73.5% = _____

1% = _____

0.06 = _____

1.15% = _____

0.425 = _____