Changing Percents to Decimals

To calculate with a percent, first change the percent to a decimal.

50% means 50 out of 100 or $\dfrac{50}{100}$. So to change 50% to a decimal, divide 50 by 100.

As you know, $5 is the same as $5.00. When a number appears without a decimal point, the decimal point is understood to be to the right of the number.
To divide by 100, move the decimal point two places to the left.

50% = 0.50

100% = 1

5% = 0.05   Sometimes, you need to insert a "0" to move the decimal point two places left.

1.5% = 0.015   Sometimes, percents already have a decimal point.

250% = 2.5   Sometimes, percents are more than 100%.

1. Change each percent to a decimal.

   a) 85%   b) 32%   c) 12%   d) 93%

   e) 98%   f) 49%   g) 18%   h) 66%

2. Change each percent to a decimal.

   a) 3%   b) 2%   c) 4%   d) 9%

   e) 1%   f) 7%   g) 8%   h) 6%

3. Change each percent to a decimal.

   a) 150%   b) 3.5%   c) 5.8%   d) 200%

Answers:
1.a) 0.85 b) 0.32 c) 0.12 d) 0.93 e) 0.98 f) 0.49 g) 0.18 h) 0.66
2.a) 0.03 b) 0.02 c) 0.04 d) 0.09 e) 0.01 f) 0.07 g) 0.08 h) 0.06
3.a) 1.50 b) 0.035 c) 0.058 d) 2.00

Finding Percents of Numbers

15% of $2800 $= 0.15 \times 2800$ "Of" means multiply.
$= 420$ Don't show $ in the actual calculations.
Use your calculator.
15% of $2800 = $420.

1. Find.
   a) 50% of $120

   b) 75% of $400

   c) 80% of $1200

   d) 25% of $30

   e) 10% of $29

   f) 72% of $24 000

2. Find.
   a) 15% of $123

   b) 67% of $830

   c) 86% of $1259

   d) 8% of $37

   e) 1% of $152

   f) 7% of $23 255

3. Find.
   a) 15% of $6549

   b) 75% of $6.37

   c) 100% of 57

   d) 7% of 4538.59

   e) 3.7% of $40

   f) 60% of $15.99

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Answers:
1.a) $60 b) $300 c) $960 d) $7.50 e) $2.90 f) $17280
2.a) $18.45 b) $556.10 c) $1082.74 d) $2.96 e) $1.52 f) $1627.85
3.a) $982.35 b) $4.78 c) 57 d) 317.70 e) $1.48 f) $9.59