Name: _____

UNDERSTANDING PLACE VALUE:

MULTIPLYING & DIVIDING BY 10 AND 100

Professor Place Value needs your help with these calculations!

Multiplying by 10

First, lets address a common misconception:

Steve thinks that to multiply by 10, you just add a 0 to the number. For example, he says 56×10=560.

Sarah explains that this only works for whole numbers. She says, "**When multiplying by 10, the digits move one place to the left.**" For example, **7.8×10** becomes **78** not 7.80.

- 4 × 10 = _____
- 8 × 10 = _____
- 12 × 10 = _____
- 50 × 10 = _____
- 27 × 10 = _____
- 3.5 × 10 = _____
- 6.4 × 10 = _____
- 8.1 × 10 = _____
- 4.2 × 10 = _____
- 9.3 × 10 = _____

- 1.7 × 10 = _____
- 0.8 × 10 = _____
- 2.9 × 10 = _____
- 7.6 × 10 = _____
- 5.5 × 10 = _____
- 0.25 × 10 = _____
- 0.34 × 10 = _____
- 1.25 × 10 = _____
- 0.75 × 10 = _____
- 3.14 × 10 = _____

VIEW ANSWERS

Name: _____

UNDERSTANDING PLACE VALUE:

MULTIPLYING & DIVIDING BY 10 AND 100

Professor Place Value needs your help with these calculations!

Multiplying by 100

Remember Sarah and Steve from multiplying by 10? This time, the rule is slightly different.

When multiplying by 100, you move the digits two places to the left.

★

- 4 × 100 = _____
- 8 × 100 = _____
- 12 × 100 = _____
- 50 × 100 = _____
- 27 × 100 = _____
- 3.5 × 100 = _____
- 6.4 × 100 = _____
- 8.1 × 100 = _____
- 4.2 × 100 = _____
- 9.3 × 100 = _____

★★

- 1.7 × 100 = _____
- 0.8 × 100 = _____
- 2.9 × 100 = _____
- 7.6 × 100 = _____
- 5.5 × 100 = _____
- 0.25 × 100 = _____
- 0.34 × 100 = _____
- 1.25 × 100 = _____
- 0.75 × 100 = _____
- 3.14 × 100 = _____

VIEW ANSWERS

Name: _____

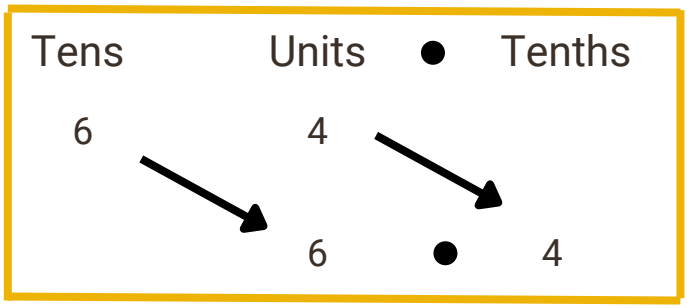
UNDERSTANDING PLACE VALUE:

MULTIPLYING & DIVIDING BY 10 AND 100

Professor Place Value needs your help with these calculations!

Dividing by 10

When dividing a number by 10, all the digits move one place to the right. Eg 64 ÷ 10 = 6.4



- 650 ÷ 10 = _____
- 420 ÷ 10 = _____
- 900 ÷ 10 = _____
- 310 ÷ 10 = _____
- 150 ÷ 10 = _____
- 75 ÷ 10 = _____
- 64 ÷ 10 = _____
- 32 ÷ 10 = _____
- 18 ÷ 10 = _____
- 56 ÷ 10 = _____

- 41 ÷ 10 = _____
- 29 ÷ 10 = _____
- 93 ÷ 10 = _____
- 54 ÷ 10 = _____
- 27 ÷ 10 = _____
- 43.2 ÷ 10 = _____
- 84.6 ÷ 10 = _____
- 924.8 ÷ 10 = _____
- 742.1 ÷ 10 = _____
- 5.9 ÷ 10 = _____

VIEW ANSWERS

Name: _____

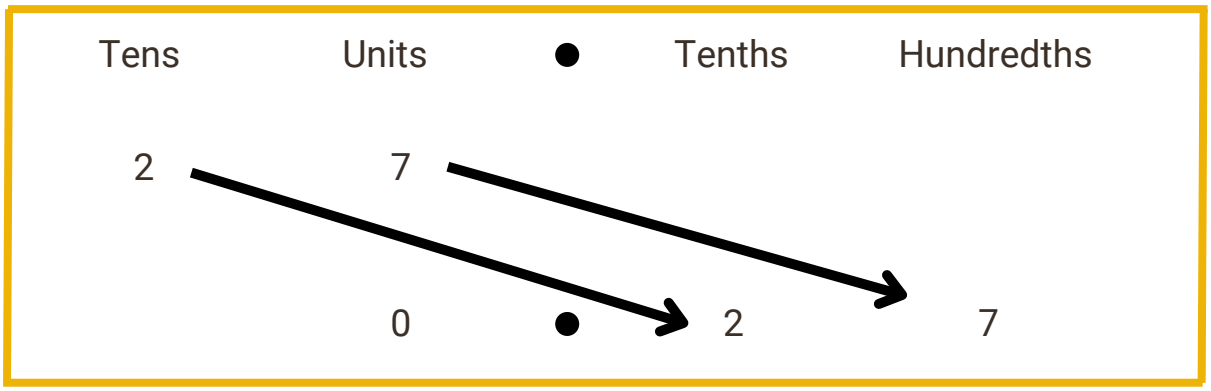
UNDERSTANDING PLACE VALUE:

MULTIPLYING & DIVIDING BY 10 AND 100

Professor Place Value needs your help with these calculations!

Dividing by 100

When dividing a number by 100, all the digits move two place to the right. Eg 27 ÷ 100 = 0.27



- 800 ÷ 100 = _____
- 400 ÷ 100 = _____
- 900 ÷ 100 = _____
- 200 ÷ 100 = _____
- 600 ÷ 100 = _____
- 75 ÷ 100 = _____
- 64 ÷ 100 = _____
- 32 ÷ 100 = _____
- 18 ÷ 100 = _____
- 56 ÷ 100 = _____

- 41 ÷ 100 = _____
- 29 ÷ 100 = _____
- 93 ÷ 100 = _____
- 54 ÷ 100 = _____
- 27 ÷ 100 = _____
- 43.2 ÷ 100 = _____
- 84.6 ÷ 100 = _____
- 732.1 ÷ 100 = _____
- 5.9 ÷ 100 = _____
- 300.6 ÷ 100 = _____

VIEW ANSWERS