MULTIPLYING DECIMALS BY 10's

EXAMPLE #1

4.5 6 × 1 0 = 4 . 5 . 6 = 45 . 6

10 HAS ONE ZERO, WHICH TELLS YOU TO MOVE THE DECIMAL ONE PLACE TO THE **RIGHT**

DON'T NEED THE DECIMAL AT THE END

EXAMPLE #2

HAVE TO ADD 0'S

4 7 × 1 0 0 = 4 7 . 0 0 = 4,700

1 2

100 HAS TWO ZEROS, WHICH TELLS YOU TO MOVE THE DECIMAL TWO PLACES TO THE **RIGHT**

BUT THERE IS NO DECIMAL IN SIGHT. IF YOU CAN'T SEE IT, IT'S ONE THE RIGHT.

DO YOU SEE THE NUMBERS GETTING BIGGER WHEN YOU MOVE THE DECIMAL TO THE RIGHT?

MULTIPLY.

0 . 1 4 × 100 = 14

2 ZEROS, SO MOVE THE DECIMAL 2 PLACES

5.52 × 10 = 55.2

0.125 × 100 = 12.5

8.265 × 10 = 82.65

2.2 × 10 = 22

1.5978 × 100 = 159.78

2 5 × 100 = 250

NOT ENOUGH DIGITS, HAVE TO ADD A ZERO.

5.682 × 100 = 568.2

5 × 100 = 5. 0 0.

IF IT'S NOT IN SIGHT, IT'S ON THE RIGHT.

5.61 × 100 = 561

3.96 × 10 = 39.6

0.906 × 100 = 90.6

NOW TRY THESE.

6.2865 × 10,000 = 62865

7.635 × 1000 = 7635

2.296 × 100 = 229.6

4.3 × 100 = 430

3.9875 × 10,000 = 39875

12.57 × 1000 = 12570

DIVIDING DECIMALS BY 10'S

DIVISION IS THE SAME AS MULTIPLICATION, BUT YOU MOVE THE DECIMAL IN THE OPPOSITE DIRECTION

EXAMPLE #1

6 5 . 2 ÷ 1 0 = 6 . 5 . 2 = 6. 5 2

1

10 HAS ONE ZERO, WHICH TELLS YOU TO MOVE THE DECIMAL ONE PLACE TO THE **LEFT**

EXAMPLE #2

5 6 ÷ 100 = . 5 6 . = .5 6

2 1

100 HAS TWO ZEROS, WHICH TELLS YOU TO MOVE THE DECIMAL TWO PLACES TO THE **LEFT**

REMEMBER, IF THERE'S NO DECIMAL, IT'S ON THE RIGHT.

DO YOU SEE THE NUMBERS GETTING SMALLER WHEN YOU MOVE THE DECIMAL TO THE LEFT?

DIVIDE

2 3 . 1 ÷ 100 = .231

2 ZEROS , SO MOVE THE DECIMAL 2 PLACES

882.2 ÷ 100 = 8.822

0.52 ÷ 10 = 0.052

158.6 ÷ 100 = 1.586

48.2 ÷ 100 = 0.482

82.12 ÷ 10 = 8.212

NOW TRY THESE.

0.008 ÷ 1000 = 0.000008

62 ÷ 10,000 = 0.0062

0.001 ÷ 10 = 0.0001

154.852 ÷ 10,000 = 0.0154852

8.4 ÷ 100 = 0.084

52.3 ÷ 100 = 0.523