

MULTIPLYING DECIMALS BY 10's

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EXAMPLE #1

$$3.26 \times 10 = 32.6 = 32.6$$

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

DON'T NEED THE DECIMAL AT THE END.

MULTIPLY.

$$0.12 \times 100 = 12$$

2 ZEROS, SO MOVE THE DECIMAL 2 PLACES.

$$3.42 \times 10 = 34.2$$

$$0.972 \times 100 = 97.2$$

$$0.045 \times 10 = 0.45$$

$$2.05 \times 100 = 205$$

$$3.3 \times 10 = 33$$

$$8.158 \times 10 = 81.58$$

$$0.0062 \times 10 = 0.062$$

$$34.68 \times 100 = 3468$$

$$0.079 \times 100 = 7.9$$

$$45.002 \times 100 = 4500.2$$

$$5.325 \times 10 = 53.25$$

$$6.7 \times 100 = 670$$

NOT ENOUGH DIGITS, HAVE TO ADD A ZERO.

$$0.45 \times 10 = 4.5$$

$$86.7 \times 100 = 8670$$

$$0.029 \times 10 = 0.29$$

$$31.8 \times 10 = 318$$

$$0.001 \times 100 = 0.1$$

$$4 \times 100 = 400$$

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

$$7.2 \times 100 = 720$$

$$2 \times 10 = 20$$

$$0.306 \times 10 = 3.06$$

$$57 \times 10 = 570$$

$$93 \times 100 = 9300$$

$$6.1 \times 10 = 61$$

$$0.483 \times 100 = 48.3$$

$$859 \times 100 = 85900$$

NOW TRY THESE.

$$5.1234 \times 1,000 = 5123.4$$

$$39.3 \times 10,000 = 393000$$

$$38 \times 10,000 = 380000$$

$$0.04 \times 1,000 = 40$$

DIVIDING DECIMALS BY 10's

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

EXAMPLE #1

$$75.2 \div 10 = 7.52 = 7.52$$

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

DIVIDE.

$$49.1 \div 100 = .491$$

2 ZEROS, SO MOVE THE DECIMAL 2 PLACES.

$$5.8 \div 10 = 0.58$$

$$248.7 \div 100 = 2.487$$

$$30.4 \div 10 = 3.04$$

$$0.6 \div 10 = 0.06$$

$$993.2 \div 100 = 9.932$$

$$51.08 \div 100 = 0.5108$$

$$2.47 \div 10 = 0.247$$

$$0.53 \div 10 = .053$$

$$4.1 \div 10 = 0.41$$

$$63.9 \div 100 = 0.639$$

$$3784.8 \div 100 = 37.848$$

$$7.3 \div 100 = .073$$

NOT ENOUGH DIGITS, HAVE TO ADD A ZERO.

$$123.4 \div 10 = 12.34$$

$$0.9 \div 100 = 0.009$$

$$8.25 \div 100 = 0.0825$$

$$9.123 \div 100 = 0.09123$$

$$1.9 \div 10 = 0.19$$

$$32 \div 100 = .32$$

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

$$56 \div 10 = 5.6$$

$$700 \div 10 = 70$$

$$0.68 \div 10 = 0.068$$

$$8 \div 100 = 0.08$$

$$4.6 \div 100 = 0.046$$

$$0.001 \div 10 = 0.0001$$

$$5 \div 10 = 0.5$$

$$392 \div 100 = 3.92$$

NOW TRY THESE.

$$45 \div 10,000 = 0.0045$$

$$0.004 \div 1,000 = 0.000004$$

$$6.2 \div 1,000 = 0.0062$$

$$123.654 \div 10,000 = 0.0123654$$