

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.

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

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

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

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

EXAMPLE #2

$$58 \times 100 = 5800 = 5,800$$

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?

HAVE TO ADD 0'S

DIVIDING DECIMALS BY 10's

ANSWERS - PAGE 2

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.

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

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

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

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