

Multiplying decimals using mental methods



Use mental methods to multiply a decimal by a whole number

Challenge 1

1 How many tenths does each of these numbers represent?

Example

$2.7 = 27$ tenths

3.6 8.4 7 6.8 4.2 8.9 25

2 How many hundredths does each of these numbers represent?

Example

$2.5 = 250$ hundredths

5.36 0.62 3.1 4.53 0.02 2.34 7

Challenge 2

Fill in the missing numbers to make the calculations complete.

a $\star \times 4 = 1.2$

b $\square \times 6 = 0.36$

c $\star \times 7 = 2.8$

d $\square \times 5 = 0.05$

e $\star \times 8 = 6.4$

f $6 \times \square = 2.4$

g $9 \times \star = 0.45$

h $8 \times \square = 4.0$

i $3.6 = \star \times 4$

j $\square \times 7 = 5.6$

k $6.8 \times 7 = \star$

l $\square = 4 \times 0.78$

m $7.4 \times 8 = \star$

n $9.6 \times 5 = \square$

o $0.47 \times 6 = \star$

Example

$$6 \times 8 = 48$$

$$0.6 \times 8 = 4.8$$

$$0.06 \times 8 = 0.48$$

Find the related calculations. Write them as a set.
Find the answer to each one.

$$0.73 \times 8$$

$$4.6 \times 4$$

$$73 \times 8$$

$$7.9 \times 6$$

$$6.4 \times 6$$

$$5.8 \times 7$$

$$46 \times 4$$

$$64 \times 9$$

$$0.87 \times 3$$

$$79 \times 6$$

$$0.64 \times 9$$

$$8.7 \times 3$$

$$0.45 \times 8$$

$$8.1 \times 6$$

$$87 \times 3$$

$$81 \times 6$$

$$4.5 \times 8$$

$$2.2 \times 1$$

$$7.3 \times 8$$

$$22 \times 1$$

$$58 \times 7$$

$$0.64 \times 6$$

$$0.46 \times 4$$

$$6.4 \times 9$$

$$0.81 \times 6$$

$$45 \times 8$$

$$64 \times 6$$

$$0.79 \times 6$$

$$0.22 \times 1$$

$$0.58 \times 7$$

