

Name: Class:

Multiply a decimal by a 1 digit whole number using the distributive property

Find the product of the following expressions by using the distributive property.

a. 5×6.3

b. 7×2.9

c. 10×8.2

d. 4×3.3

e. 9×6.9

f. 3×1.2

g. 5×7.4

h. 8×8.5

i. 10×4.1

j. 7×3.3

k. 6×6.9

l. 7×7.7

m. 6×3.3

n. 2×5.2

o. 1×8.2

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Multiply a decimal by a one - digit whole number using the distributive property

Find the product of the following expressions by using the distributive property.

a. 5×6.3

Let's begin by separating 6.3 into its corresponding place values.

$$6.3 = 6 + 0.3$$

Secondly, let's use the distributive property here.

$$\begin{aligned} 5 \times 6.3 &= 5 (6 + 0.3) \\ &= (5 \times 6) + (5 \times 0.3) \end{aligned}$$

Finally, we multiply and then add to get the product.

$$30 + 1.5 = 31.5.$$

$$\text{So, } 5 \times 6.3 = 31.5.$$

b. 7×2.9

Let's begin by separating 2.9 into its corresponding place values.

$$2.9 = 2 + 0.9$$

Secondly, let's use the distributive property here.

$$\begin{aligned} 7 \times 2.9 &= 7 (2 + 0.9) \\ &= (7 \times 2) + (7 \times 0.9) \end{aligned}$$

Finally, we multiply and then add to get the product.

$$14 + 6.3 = 20.3.$$

$$\text{So, } 7 \times 2.9 = 20.3.$$

c. 10×8.2

Let's begin by separating 8.2 into its corresponding place values.

$$8.2 = 8 + 0.2$$

Secondly, let's use the distributive property here.

$$\begin{aligned} 10 \times 8.2 &= 10 (8 + 0.2) \\ &= (10 \times 8) + (10 \times 0.2) \end{aligned}$$

Finally, we multiply and then add to get the product.

$$80 + 2 = 82.$$

$$\text{So, } 10 \times 8.2 = 82.$$