

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



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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.

$$80 + 2 = 82$$

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

