Name _____ Date _____

Abstract Decimal Multiplication Lesson and Practice

The blue stick is 90 pixels long. It is being scaled. Complete the corresponding multiplication sentence.

0.7 x ⟶

0.7 x 90 px = _____ px

Scaling a 'stick':

Scaling means expanding or shrinking something by some factor.

Scaling is a useful model for multiplication. Let's look at scaling a "stick" (a line segment).

This blue stick is 90 pixels long. Now let's scale the blue stick to be 0.7 times as long as it is at first:

⟶

We can write a multiplication equation:

0.7 x =

In pixels, 0.7 x 90 px = 63 px.

The number we multiply by (0.7 above) is called the scaling factor.

If the scaling factor is more than 1, the resulting stick is longer than the original one .

If the scaling factor is less than 1, such as 0.5 or 0.66, the resulting stick is shorter.

Answer: 63

Practice Problems

1	0.1 x ⟶ 0.1 x 90 px = _____ px	2	0.3 x ⟶ 0.3 x 90 px = _____ px