Lesson 4-1: Multiply Decimals By Powers of 10
Solve and Share

Content Standard: 5.NBT.A.2
I Can Statement: I can find the product of a decimal number and a power of 10.

Javier is helping his parents put up posters in their movie theater. Each poster has a thickness of 0.012 inch. How thick is a stack of 10 posters? 100 posters? 1,000 posters?

Lesson 4-1:Independent Practice

1) 0.009 x 10 =

2) 3.1 x 10 ^3 =

3) 0.062 x 10 ^2 =

4) 1.24 x 10 ^2 =

5) 63.7 x 0.01 =

6) 0.678 x 0.1 =

7) 681.7 x 0.01 =

8) 94.6 x 10 ^3

9) .001 x 43.25

Lesson 4-2: Estimate the Product of a Decimal and a Whole Number
Solve and Share

Content Standard: 5.NBT.B.7
I Can Statement: I can use rounding and compatible numbers to estimate the product of a decimal and a whole number.

Renee needs 32 strands of twine for an art project. Each strand must be 1.25 centimeters long. About how many centimeters of twine does she need?

Lesson 4-2: Independent Practice

1) 0.12 x 105 =

2) 45.3 x 4 =

3) 99.2 x 82 =

4) 37 x 0.93 =

5) 1.67 x 4 =

6) 3.2 x 184 =

7) 12 x 0.37 =

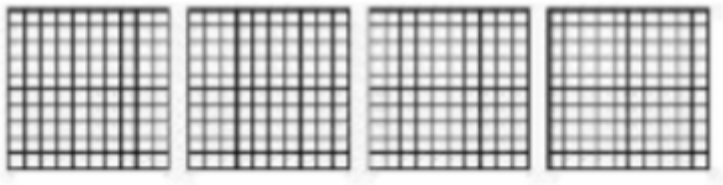
8) 0.904 x 75 =

9) 104 x 0.33 =

Lesson 4-3: Use Models to Multiply a Decimal and a Whole Number
Solve and Share

Content Standard: 5.NBT.B.7
I Can Statement: I can use models to represent multiplying a decimal and a whole number.

Mara has 4 garden plots. Each is 0.7 acre in area. What is the total area of the garden plots? Use objects or the grids below to show your work.



Lesson 4-3:Independent Practice

1) 5 x 0.5 =

2) 4 x 0.27 =

3) 6 x 0.13 =

4) 10 x 0.32 =

5) 6 x 2.03 =

6) 1.35 x 5 =

7) 2.04 x 2 =

8) 3 x 4.8 =

9) 0.7 x 21 =

Lesson 4-4: Multiply a Decimal by a Whole Number
Solve and Share

Content Standard: 5.NBT.B.7
I Can Statement: I can multiply a decimal by a whole number.

A car travels 1.15 kilometers in 1 minute. If it travels at a constant speed, how far will it travel in 3 minutes. In 5 minutes?

Lesson 4-4: Independent Practice

1) 34.6 x 9 =

2) 64.2 x 20 =

3) 40 x 0.22 =

4) 5.8 x 11 =

5) 56 x 0.4 =

6) 179 x 0.003 =

7) 26 x 1.61 =

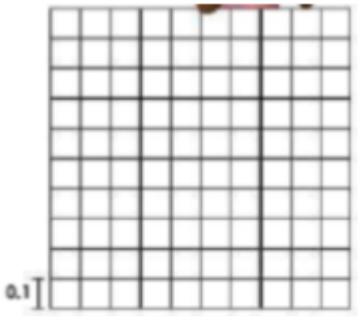
8) 10.76 x 100 =

9) 2.54 x 12 =

Lesson 4-5: Use Models to Multiply a Decimal and a Decimal. Solve and Share

Content Standard: 5.NBT.B.7
I Can Statement: I can use grids to multiply decimals.

A rectangle has an area of 0.24 square meter. What is one possibility for the length and width of the rectangle?



Lesson 4-5: Independent Practice

1) 0.4 x 0.5 =

2) 0.3 x 0.7 =

3) 0.7 x 0.8 =

4) 0.5 x 1.7 =

5) 0.6 x 1.2 =

6) 0.2 x 0.8 =

7) 0.9 x 0.1 =

8) 0.2 x 1.5 =

9) 2.8 x 0.3 =

Lesson 4-6: Multiply Decimals Using Partial Products
Solve and Share

Content Standard: 5.NBT.B.7
I Can Statement: I can multiply two decimals using partial products.

If a truck travels 8.6 miles on one gallon of fuel, how many miles will the truck travel on 9.2 gallons of fuel will the travel on 9.2 gallons of fuel? Use partial products to find your answer.

Lesson 4-6: Independent Practice

1) 9.3 x 4.1 =

2) 3.2 x 0.6 =

3) 0.7 x 1.9 =

4) 12. 6 x 0.2 =

5) 5.2 x 4.6 =

6) 19.1 x 8.5 =

7) 9.1 x 11.6 =

8) 18.1 x 3.7 =

9) 2.8 x 3.7 =

Lesson 4-7: Use Properties to Multiply Decimals
Solve and Share

Content Standard: 5.NBT.B.7
I Can Statement: I can use properties to multiply decimals.

The weight of a small bag of raisins is 0.3 times the weight of a large bag. The large bag weighs 0.8 pound. What is the weight of the small bag?

Lesson 4-7: Independent Practice

1) 0.6 x 0.2 =

2) 0.33 x 0.8 =

3) 1.7 x 0.22 =

4) 1.8 x 0.9 =

5) 0.03 x 1.6 =

6) 4.2 x 4.2 =

7) 11.1 x 0.8 =

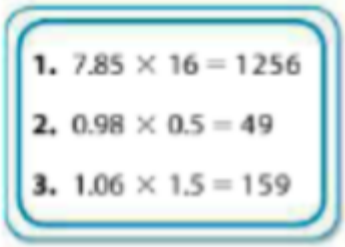
8) 1.16 x 0.4 =

9) 1.6 x 0.01 =

Lesson 4-8: Use Number Sense to Multiply Decimals
Solve and Share

Content Standard: 5.NBT.B.7
I Can Statement: I can use number sense to place the decimal point in a product.

Three students in Ms. Cho's class wrote the following problems on the board. The correct digits in the products are given, but the decimal point isn't placed yet. Where should the decimal point go in each product?



Lesson 4-8: Independent Practice

1) 6 x 5.01 =

2) 12.8 x 3.2 =

3) 4.06 x 20.1 =

4) 24 x 6.3 =

5) 0.6 x 0.7 =

6) 1.1 x 13.8 =

7) 2.8 x 345.1 =

8) 56.2 x 7.9 =

9) 5.2 x 6.4 =

Lesson 4-9: Multiply Decimals
Solve and Share

Content Standard: 5.NBT.B.7
I Can Statement: I can multiply decimals using the standard algorithm.

Kala's teacher asked the students to find the products. What are the products?

0.63 X 0.4 =_____

0.21 X 0.32 =_____

0.15 X 0.98 =_____

Lesson 4-9: Independent Practice

1) 0.4 x 1.3 =

2) 0.63 x 5.5 =

3) 9.1 x 6.8 =

4) 2.9 x 2.9 =

5) 27 x 4.9 =

6) 0.8 x 0.09 =

7) 12.5 x 0.009 =

8) 8.1 x 8.1 =

9) 0.33 x 9.2 =