Think about it!

Use estimation to determine the correct placement of the decimal points in the products below.

$$32 \times 12 = \quad 384$$

$$3.2 \times 12 = \quad 384$$

$$32 \times 1.2 = \quad 384$$

$$3.2 \times 1.2 = \quad 384$$

Explain how you used estimation to place the decimal points to justify your choice.

_____

_____

_____

What pattern do you notice about the number of decimal places in the factors and the decimal places in the product?

_____

_____

_____

Key Idea:

The _____ number of decimal places in the _____ is the same

as the number of decimal places in the _____. We can check by

_____.

Let's practice! Place the decimal in the product.

1.) 5.5 x 3.77 =   20735

2.) 4.4 x 2.333 =   102652

3.) 3.42 x 5.15 =   176130

Key Idea #2

Since we know where to place the decimal point, we can multiply the decimals like they are

_____ _____ and place the decimal point in after we
multiply.

Let's Practice!

1.) 20.6 x 3.7

2.) Maria ran at a rate of 3.4 miles per hour for 6.8 hours. How many miles did she run in total?

Partner Practice

Place the decimal in the product. Use estimation to help you.

1.) $2.1 \times 7.46 =$ 15666

2.) $5.6 \times 1.245 =$ 6972

3.) $8.57 \times 63.2 =$ 541624

Solve each word problem. Your work space must include: annotations, your arithmetic work, an estimation check, and a full sentence answer.

1) Benjamin bought 12 goldfish. Each goldfish cost $3.98. How much did Benjamin spend?

2) Kathy earns $6.25 per hour at her baby-sitting job. On Sunday she worked 7.5 hours. What were her total earnings for the day?

3) A tissue box is 12.02 centimeters in width. What is the total width of 13 tissue boxes on a shelf?

Final CFU

A gallon of gas costs $2.89. Ms. Sizemore filled up her tank with 12 gallons of gas. How much did she pay?

Independent Practice

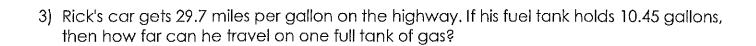**Place the decimal in the product. Use estimation to help you.**

1.) 5.5 x 3.77 =   20735

2.) 4.4 x 2.333 =   102652

3.) 3.42 x 5.15 =   176130

Solve each word problem. Your work space must include: annotations, your arithmetic work, an estimation check, and a full sentence answer.

1) Karley earns $8.40 per hour at her part-time job. On Saturday she worked 5 hours. What were her total earnings for the day?

2) What is the area of a rectangle that has a length of 2.3 inches and a width of 4.9 inches?

3) Rick's car gets 29.7 miles per gallon on the highway. If his fuel tank holds 10.45 gallons, then how far can he travel on one full tank of gas?

Determine the products.

1.) 4 x 34.98

2.) 18.4 x 34.6

3.) 3 x 6.892

Name:_____   Date:_____

Exit Ticket

Place the decimal in the product. Use estimation to help you.

1) 3.65 x 3.8 = 1387

2) 12.3 x 5.9 = 7257

Solve the word problem. Your work space must include: annotations, your arithmetic work, an estimation check, and a full sentence answer.

Ricardo earns $13.45 per hour at his part-time job. On Monday he worked 5 hours. What were his total earnings for the day?