MATH

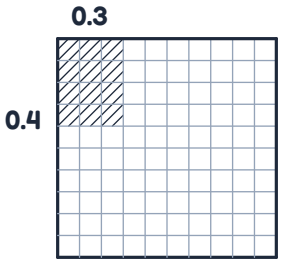
Multiplying decimals

Name _____ Date _____

I can multiply two decimals.

1 How it works

Multiply as whole numbers, then count the decimal places in both numbers together. The answer gets that many places. 0.3 × 0.4: 3 × 4 = 12, and there are 2 decimal places in all, so the answer is 0.12. The grid shows 12 of the 100 squares shaded twice.



0.3 × 0.4

= 0.12

12 hundredths

2 Multiply tenths

Count the decimal places in both numbers.

1. **0.2 × 0.3 =** ☐
2. **0.6 × 0.6 =** ☐
3. **0.5 × 0.8 =** ☐
4. **0.6 × 0.4 =** ☐
5. **0.6 × 0.5 =** ☐
6. **4.3 × 0.8 =** ☐
7. **4.3 × 0.5 =** ☐
8. **1.5 × 0.9 =** ☐
9. **5.4 × 0.7 =** ☐

How did I do? ☆ ☆ ☆

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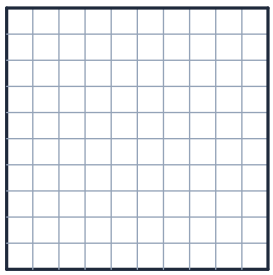
Area models and columns

Name _____ Date _____

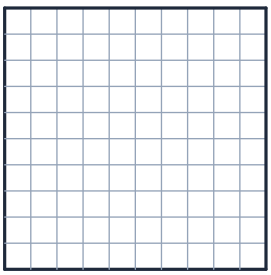
I can multiply decimals with a model and in columns.

1 Shade to multiply

Shade columns for the first number, rows for the second.

1. 

0.4 × 0.2 = ☐

2. 

0.4 × 0.3 = ☐

2 Multiply. Show your work.

Count all the decimal places.

1. 8.4 × 5.8

2. 6.9 × 3.4

3. 3.6 × 5.7

4. 1.92 × 0.8

5. 3.99 × 0.9

6. 8.03 × 0.7

How did I do? ☆ ☆ ☆

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Place the point and estimate

Name _____ Date _____

I can tell where the decimal point goes in a product.

1 Put the decimal point in the answer

Count the decimal places in both numbers.

1. 1.9 × 1.3 = 2 4 7
2. 9.9 × 2.1 = 2 0 7 9
3. 4.3 × 3.5 = 1 5 0 5
4. 2.9 × 3.2 = 9 2 8

2 Estimate first, then circle the answer

Round to whole numbers first.

1. 1.2 × 4.6 = 0.552 | 5.52 | 55.2
2. 9.9 × 4.7 = 46.53 | 465.3 | 4.653
3. 4.8 × 2.6 = 124.8 | 1.248 | 12.48
4. 5.2 × 3.9 = 2.028 | 20.28 | 202.8

3 Think about it

1. Is 0.5 × 0.5 more or less than 0.5?
2. How many decimal places are in 0.3 × 0.02?
3. What is 0.1 × 0.1?
4. Give two decimals with a product of 0.24.

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can use decimals to solve problems.

1 Read, think, answer

Show your thinking in the box.

1 A rope is 2.5 meters long. Ben cuts off 0.4 of it. How many meters does Ben cut off?

Answer:

2 A garden bed is 1.5 meters long and 0.6 meter wide. What is its area?

Answer:

3 Apples cost $1.20 a pound. Aisha buys 2.5 pounds. How much does Aisha pay?

Answer:

4 A snail crawls 0.3 meter in a minute. How far does it crawl in 1.5 minutes?

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: multiplying decimals

1 Page 1

Products: 1) 0.06; 2) 0.36; 3) 0.4; 4) 0.24; 5) 0.3; 6) 3.44; 7) 2.15; 8) 1.35; 9) 3.78.

2 Page 2

Area models: 1) 0.4 × 0.2 = 0.08; 2) 0.4 × 0.3 = 0.12.
Columns: 1) 48.72; 2) 23.46; 3) 20.52; 4) 1.536; 5) 3.591; 6) 5.621.

3 Page 3

Decimal point: 1) 2.47; 2) 20.79; 3) 15.05; 4) 9.28.
Estimate: 1) 5.52; 2) 46.53; 3) 12.48; 4) 20.28.
Think: 1) Less. It is 0.25; 2) 3 (the answer is 0.006); 3) 0.01; 4) For example 0.4 × 0.6, or 0.3 × 0.8.

4 Page 4: word problems

1) 2.5 × 0.4 = 1 meter
2) 1.5 × 0.6 = 0.9 square meter
3) 1.20 × 2.5 = $3.00
4) 0.3 × 1.5 = 0.45 meter

5 Teaching tip

Children are often surprised that 0.3 × 0.4 is smaller than both numbers. Read × as "of": three tenths of four tenths. The hundred grid makes it easy to see.

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