MATH

Multiplying decimals by whole numbers



Name _____ Date _____

🎯 **I can multiply a decimal by a whole number.**

1 How it works 💡

Multiply as if there were no decimal point. Then put the point back so the answer has as many decimal places as the decimal you started with. For 2.35 × 3, work out 235 × 3 = 705. 2.35 has 2 decimal places, so the answer is 7.05.

$$\begin{array}{r} 2.35 \\ \times \quad 3 \\ \hline 7.05 \end{array}$$

235 × 3 = 705
2 decimal places
so 7.05

2 Multiply

Multiply as whole numbers, then put the point back.

1. 7.2 × 6 = ☐
2. 0.75 × 3 = ☐
3. 0.22 × 6 = ☐
4. 4.7 × 5 = ☐
5. 5.8 × 8 = ☐
6. 1.02 × 9 = ☐
7. 6.9 × 8 = ☐
8. 1.01 × 3 = ☐
9. 0.77 × 4 = ☐

How did I do? ☆ ☆ ☆

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Multiply in columns

Name _____ Date _____

I can multiply a decimal by a whole number in columns.

1 Multiply. Show your work.

Count the decimal places, then place the point.

1. 6.6 2 × 6

2. 9.0 7 × 9

3. 4.4 7 × 5

4. 6.2 × 4 5

5. 2.5 × 1 9

6. 8.1 × 2 1

2 Estimate first, then circle the answer

Round the decimal to a whole number.

1. 5.7 × 6 = (3.42) (34.2) (342)

2. 9.2 × 3 = (27.6) (276) (2.76)

3. 7.7 × 8 = (616) (6.16) (61.6)

4. 9.2 × 4 = (3.68) (36.8) (368)

How did I do? ☆ ☆ ☆

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Money and the decimal point

Name _____ Date _____

I can multiply money and place the decimal point.

1 Multiply the money

1. $9.85 × 8 = ____
2. $2.85 × 2 = ____
3. $7.55 × 6 = ____
4. $2.35 × 8 = ____
5. $7.95 × 9 = ____
6. $3.25 × 8 = ____

2 Put the decimal point in the answer

Draw the point between the right digits.

1. 4.4 × 8 = 3 5 2
2. 2.6 × 8 = 2 0 8
3. 1.1 × 8 = 8 8
4. 5.3 × 3 = 1 5 9

3 Think about it

1. Is 4.9 × 3 more or less than 15? ____
2. Sam says 1.2 × 3 = 36. What did he forget? ____
3. What is 0.25 × 4? ____

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 notebook costs $1.25. Zara buys 4 notebooks. How much does Zara pay?

Answer: _____

2 Ali runs 2.5 km every day. How far does Ali run in 6 days?

Answer: _____

3 A bag of apples weighs 1.8 pounds. How much do 3 bags weigh?

Answer: _____

4 A juice box holds 0.25 liter. How much juice is in 12 boxes?

Answer: _____

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: multiplying decimals by whole numbers

1 Page 1

Products: 1) 43.2; 2) 2.25; 3) 1.32; 4) 23.5; 5) 46.4; 6) 9.18; 7) 55.2; 8) 3.03; 9) 3.08.

2 Page 2

Columns: 1) 39.72; 2) 81.63; 3) 22.35; 4) 279; 5) 47.5; 6) 170.1.
Estimate: 1) 34.2 (about 36); 2) 27.6 (about 27); 3) 61.6 (about 64); 4) 36.8 (about 36).

3 Page 3

Money: 1) $78.80; 2) $5.70; 3) $45.30; 4) $18.80; 5) $71.55; 6) $26.00.
Decimal point: 1) 35.2; 2) 20.8; 3) 8.8; 4) 15.9.
Think: 1) Less. 4.9 is less than 5, and 5 × 3 = 15; 2) The decimal point. The answer is 3.6; 3) 1.

4 Page 4: word problems

1) 1.25 × 4 = $5.00
2) 2.5 × 6 = 15 km
3) 1.8 × 3 = 5.4 pounds
4) 0.25 × 12 = 3 liters

5 Teaching tip 💡

Always estimate first. 2.35 × 3 is about 2 × 3 = 6, so 7.05 makes sense and 70.5 does not. Estimating is the best check on where the point goes.

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