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. 6.62 × 6

2. 9.07 × 9

3. 4.47 × 5

4. 6.2 × 45

5. 2.5 × 19

6. 8.1 × 21

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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