LESSON MAKER PRO

Decimal Product Power

Practice, apply, and explain decimal products.

GRADE 5 · TEKS 5.3.E

5.3.E "solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers;"

NAME _____ DATE _____

PLACE THE DECIMAL

Multiply the digits as if they were whole numbers. Then count the total decimal places in both factors and place the decimal in the product. Estimate first to check whether your product is reasonable.

WORKED EXAMPLE

Find 3.6 × 0.25.

1. Multiply as whole numbers: 36 × 25 = 900.
2. Count decimal places: 3.6 has 1 and 0.25 has 2, for 3 total.
3. Place the decimal 3 places from the right: 0.900 = 0.9.

Answer: 0.9

PRACTICE 6 problems

1 1. Find 0.4 × 0.7.

ANSWER _____

2 2. Find 1.2 × 0.35.

ANSWER _____

3 3. Find 2.05 × 0.6.

ANSWER _____

4 4. Find 0.75 × 0.24.

ANSWER _____

5 5. A snack costs $3.50. You use a coupon for 0.4 of the price. How much is the coupon worth?

ANSWER _____

6 6. Find 4.25 × 1.2.

ANSWER _____

APPLY IT Show your work

1 A game download costs $4.80. It is on sale for 0.75 of its original price. What is the sale price?

WORK SPACE

ANSWER

2 Jordan buys 2.4 yards of sticker paper for $1.35 per yard. How much does Jordan pay?

WORK SPACE

ANSWER

CHALLENGE One step up

Find 1.25 × 0.48. Use the distributive property by breaking 1.25 into 1 + 0.25. Show your equations and explain why your answer makes sense.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Product Power

GRADE 5 · TEKS 5.3.E

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	1. Find 0.4 × 0.7.	**0.28**
2	2. Find 1.2 × 0.35.	**0.42**
3	3. Find 2.05 × 0.6.	**1.23**
4	4. Find 0.75 × 0.24.	**0.18**
5	5. A snack costs $3.50. You use a coupon for 0.4 of the price. How much is the coupon worth?	**$1.40**
6	6. Find 4.25 × 1.2.	**5.1**

PART 2 · APPLY IT

1. **$3.60** Multiply 4.80 × 0.75. The product is 3.60, so the sale price is $3.60.
2. **$3.24** Multiply 2.4 × 1.35. The product is 3.24, so Jordan pays $3.24.

CHALLENGE

1 × 0.48 + 0.25 × 0.48 = 0.48 + 0.12 = 0.60. The product is less than 1.25 because 0.48 is less than 1.

Accept equivalent decimal forms, such as 5.10 for 5.1. Require dollar signs and two decimal places for money answers.