

Decimal Power Moves

Use place value to add, subtract, multiply, and divide decimals.

GRADE 5 • NY-5.NBT.7

NY-5.NBT.7 "Using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between operations: add and subtract decimals to hundredths; multiply and divide decimals to hundredths..."

NAME _____

DATE _____

PLACE VALUE STEPS

Line up decimal points when you add or subtract. When you multiply, multiply as whole numbers, then count the total decimal digits to place the decimal point. When you divide, multiply both numbers by the same power of 10 until the divisor is a whole number.

WORKED EXAMPLE

Find 3.6×1.4 .

1. Multiply as whole numbers: $36 \times 14 = 504$.
2. There is 1 decimal digit in each factor, so there are 2 decimal digits altogether.
3. Place the decimal point two digits from the right: 5.04.

Answer: 5.04

PRACTICE 6 problems

1 Find $7.25 + 4.6$.

ANSWER _____

2 Find $15.00 - 8.37$.

ANSWER _____

3 Find 2.4×0.35 .

ANSWER _____

4 Find $8.64 \div 1.2$.

ANSWER _____

5 Find 0.48×0.5 .

ANSWER _____

6 Find $6.3 \div 0.09$.

ANSWER _____

APPLY IT Show your work

- 1** Jada has \$18.75 to spend at a school art sale. She buys 3 sketch pads that cost \$2.35 each. How much money does she have left?

WORK SPACE

ANSWER _____

- 2** A bracelet maker has 7.56 meters of cord. She cuts the cord into 4 equal pieces. How many meters of cord are in each piece?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A robotics club has \$29.75. It buys 5 sensor covers for \$4.36 each, then splits the money left equally among 3 project teams. How much does each team get? Explain your reasoning with equations or words.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find $7.25 + 4.6$.	11.85
2	Find $15.00 - 8.37$.	6.63
3	Find 2.4×0.35 .	0.84
4	Find $8.64 \div 1.2$.	7.2
5	Find 0.48×0.5 .	0.24
6	Find $6.3 \div 0.09$.	70

PART 2 • APPLY IT

1. **\$11.70** Multiply $3 \times \$2.35$ to find that the sketch pads cost \$7.05. Subtract \$7.05 from \$18.75.
2. **1.89 meters** Divide 7.56 by 4 to find the length of one equal piece.

CHALLENGE

Each team gets \$2.65. Multiply $5 \times \$4.36 = \21.80 , subtract $\$29.75 - \$21.80 = \$7.95$, then divide $\$7.95 \div 3 = \2.65 .

Accept equivalent decimal forms when the value is correct, such as 7.20 for 7.2. For the challenge, accept any clear explanation that shows the multiplication, subtraction, and equal division in a correct order.