LESSON MAKER PRO

Decimal Mission Control

Use smart steps to solve decimal problems.

GRADE 5 · 5.CE.3.d

5.CE.3.d "Solve single-step and multistep contextual problems involving addition, subtraction, and multiplication of decimals by applying strategies (e.g., estimation, modeling) and algorithms, including the standard algorithm."

NAME _____ DATE _____

PLAN, SOLVE, CHECK

Line up decimal points when you add or subtract. When you multiply decimals, use the standard algorithm, then place the decimal by counting the total decimal digits in the factors. Estimate first to check whether your answer makes sense.

WORKED EXAMPLE

Find 9.4 × 2 + 1.3.

1. Multiply as whole numbers: 94 × 2 = 188.
2. Place 1 decimal digit in the product: 18.8.
3. Add: 18.8 + 1.3 = 20.1.

Answer: 20.1

PRACTICE 6 problems

1 Find 6.47 + 3.8.

ANSWER _____

2 Find 14.2 - 5.68.

ANSWER _____

3 Find 3.75 × 4.

ANSWER _____

4 Find 0.9 × 2.6.

ANSWER _____

5 Find 18.05 - 7.4 + 1.28.

ANSWER _____

6 Find (2.5 × 1.4) + 0.75.

ANSWER _____

APPLY IT Show your work

1 A robotics team buys 7 LED badges for $1.85 each. The team uses a $4.50 coupon. How much does the team pay?

WORK SPACE

ANSWER _____

2 Nia has $15.00 to spend on music. She buys 4 songs for $1.27 each and one album for $2.89. How much money does she have left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

At a comic convention, 5 art prints cost $2.75 each and 6 button packs cost $1.68 each. You have $25.00. How much money remains after you buy all the items?

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Mission Control

GRADE 5 · 5.CE.3.d

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 6.47 + 3.8.	**10.27**
2	Find 14.2 - 5.68.	**8.52**
3	Find 3.75 × 4.	**15**
4	Find 0.9 × 2.6.	**2.34**
5	Find 18.05 - 7.4 + 1.28.	**11.93**
6	Find (2.5 × 1.4) + 0.75.	**4.25**

PART 2 · APPLY IT

1. **$8.45** Multiply 7 × $1.85 to get $12.95. Subtract the $4.50 coupon: $12.95 - $4.50 = $8.45.
2. **$7.03** The songs cost 4 × $1.27 = $5.08, and the total spent is $5.08 + $2.89 = $7.97. Subtract $7.97 from $15.00.

CHALLENGE

$1.17

Accept equivalent decimal forms, such as 15.0 for 15. For money problems, accept answers with or without a dollar sign if the value is correct.