LESSON MAKER PRO

Decimal Power Moves

Choose a strategy and keep place value in view.

GRADE 6 · 6.NR.1.3

6.NR.1.3 "Perform operations with multi-digit decimal numbers fluently using models and student-selected strategies"

NAME _____ DATE _____

KEEP PLACES STRAIGHT

For addition and subtraction, line up decimal points so each digit stays in its place-value column. For multiplication and division, use place value, an area model, or a strategy such as making an equivalent whole-number division, then check whether your answer is reasonable with an estimate.

WORKED EXAMPLE

24.68 + 7.9

1. Write 7.9 as 7.90 so the decimal points line up.
2. Add the decimal parts: 0.68 + 0.90 = 1.58.
3. Add the whole-number parts and regroup: 24 + 7 + 1 = 32.

Answer: 32.58

PRACTICE 6 problems

1 56.37 + 8.65

ANSWER _____

2 90.4 - 27.86

ANSWER _____

3 6.25 × 3.4

ANSWER _____

4 18.72 ÷ 3.6

ANSWER _____

5 104.09 + 16.8

ANSWER _____

6 45.6 ÷ 1.2

ANSWER _____

APPLY IT Show your work

1 An online game add-on costs $13.75. Sam buys 3 add-ons and pays with $50.00. How much change does Sam receive?

WORK SPACE

ANSWER _____

2 A school podcast has 9.6 minutes of recorded clips. The editor places the clips into equal 0.8-minute segments. How many segments can the editor make?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Solve (31.68 - 7.68) ÷ 1.6. Show a strategy that makes the division easier.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Power Moves

GRADE 6 · 6.NR.1.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	56.37 + 8.65	**65.02**
2	90.4 - 27.86	**62.54**
3	6.25 × 3.4	**21.25**
4	18.72 ÷ 3.6	**5.2**
5	104.09 + 16.8	**120.89**
6	45.6 ÷ 1.2	**38**

PART 2 · APPLY IT

1. **$8.75** Multiply 13.75 by 3 to find the total cost, $41.25. Subtract $41.25 from $50.00.
2. **12 segments** Divide 9.6 by 0.8. Multiply both numbers by 10 to make 96 ÷ 8, which equals 12.

CHALLENGE

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Accept accurate student-selected strategies, including place-value models, partial products, and equivalent whole-number division. Accept trailing-zero forms such as 5.20 for 5.2.