LESSON MAKER PRO

Decimal Decisions

Use decimal operations to solve calculations and real problems.

GRADE 6 · 6.NS.3

6.NS.3 "Add, subtract, multiply, and divide manageable multi-digit decimals using efficient and generalizable procedures including, but not limited to, the standard algorithm for each operation."

NAME _____ DATE _____

CHOOSE YOUR MOVE

To add or subtract decimals, line up the decimal points. To multiply, multiply as if the numbers were whole numbers, then place the decimal point using the total number of decimal places. To divide by a decimal, move the decimal point the same number of places in both numbers until the divisor is a whole number.

WORKED EXAMPLE

Find 8.64 / 0.24.

1. Move both decimal points two places right: 864 / 24.
2. Divide: 864 / 24 = 36.
3. Check: 24 × 36 = 864.

Answer: 36

PRACTICE 6 problems

1 Find 12.75 + 3.68.

ANSWER _____

2 Find 20.04 - 7.89.

ANSWER _____

3 Find 4.6 × 2.35.

ANSWER _____

4 Find 15.12 / 0.6.

ANSWER _____

5 Find 0.875 + 6.34.

ANSWER _____

6 Find 3.78 / 0.09.

ANSWER _____

APPLY IT Show your work

1 At a school fair, you buy 3 sticker sheets for $1.85 each and a keychain for $2.40. How much do you spend?

WORK SPACE

ANSWER _____

2 A video club has 7.2 gigabytes of free storage. Each short clip uses 0.48 gigabyte. How many clips can the club store?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A group buys 2.5 meters of fabric at $6.40 per meter and a spool of thread for $2.40. Four friends split the total cost equally. How much does each friend pay? Show your calculations.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Decisions

GRADE 6 · 6.NS.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 12.75 + 3.68.	**16.43**
2	Find 20.04 - 7.89.	**12.15**
3	Find 4.6 × 2.35.	**10.81**
4	Find 15.12 / 0.6.	**25.2**
5	Find 0.875 + 6.34.	**7.215**
6	Find 3.78 / 0.09.	**42**

PART 2 · APPLY IT

1. **$7.95** Multiply 3 × $1.85 to get $5.55, then add $2.40.
2. **15 clips** Divide 7.2 by 0.48. Moving both decimal points two places gives 720 / 48 = 15.

CHALLENGE

2.5 × $6.40 = $16.00; $16.00 + $2.40 = $18.40; $18.40 / 4 = $4.60 per friend.

Accept equivalent decimal forms, such as 25.20 for 25.2. For money answers, accept amounts with or without a dollar sign if the units are clear.