LESSON MAKER PRO

Decimal Decisions

Use standard algorithms to solve decimal problems.

GRADE 6 · 6.NS.B.6

6.NS.B.6 "Add, subtract, multiply, and divide decimals using a standard algorithm."

NAME _____ DATE _____

LINE UP AND PLACE

To add or subtract, line up the decimal points and add zeros where needed. To multiply, multiply as whole numbers, then use the total number of decimal places in the factors to place the decimal point. To divide by a decimal, move the decimal point the same number of places in both numbers so the divisor is a whole number.

WORKED EXAMPLE

Find 2.3 × 1.4.

1. Multiply as whole numbers: 23 × 14 = 322.
2. The factors have two decimal places in all: one in 2.3 and one in 1.4.
3. Place the decimal point two places from the right: 3.22.

Answer: 3.22

PRACTICE 6 problems

1 Find 18.47 + 6.8.

ANSWER _____

2 Find 20.05 - 7.89.

ANSWER _____

3 Find 4.6 × 0.35.

ANSWER _____

4 Find 15.12 ÷ 0.6.

ANSWER _____

5 Find 0.708 + 12.93.

ANSWER _____

6 Find 8.064 ÷ 0.24.

ANSWER _____

APPLY IT Show your work

1 You have $10.00 to spend on game stickers. You buy 4 stickers for $1.65 each. How much money do you have left?

WORK SPACE

ANSWER _____

2 Seven friends split an $18.90 pizza bill equally. Each friend also buys a $1.15 drink. How much does each friend pay?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A school club has $25.00. It buys 3 notebooks for $2.45 each, then divides the money left equally among 5 members for supplies. How much money does each member get?

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Decisions

GRADE 6 · 6.NS.B.6

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 18.47 + 6.8.	**25.27**
2	Find 20.05 - 7.89.	**12.16**
3	Find 4.6 × 0.35.	**1.61**
4	Find 15.12 ÷ 0.6.	**25.2**
5	Find 0.708 + 12.93.	**13.638**
6	Find 8.064 ÷ 0.24.	**33.6**

PART 2 · APPLY IT

1. **$3.40** The stickers cost 4 × $1.65 = $6.60. Subtract from $10.00 to get $3.40.
2. **$3.85** Each share of the pizza costs $18.90 ÷ 7 = $2.70. Add $1.15 for the drink to get $3.85.

CHALLENGE

$3.53

Accept equivalent decimal forms, including trailing zeros. For the challenge, the club has $25.00 - 3 × $2.45 = $17.65 left, and $17.65 ÷ 5 = $3.53.