



NTID

Mrs. Lafferty

6th Grade

Using Estimation and Area Models to Divide

Check each answer by multiplying the divisor by the quotient. If the answer is incorrect, cross out the answer and write the correct answer.

Division Problems	Student Answers
$516 \div 12$	48 43 Check: $12 \times 48 = 576$
$837 \div 31$	27
$351 \div 13$	57
$918 \div 54$	22
$896 \div 32$	23
$1,482 \div 78$	14
$1,012 \div 11$	82
$1,344 \div 56$	24

- 1** Explain how you could know that the answers to two of the problems are incorrect without multiplying.

Adding Decimals

Circle all the problems with sums less than 5.
Then find the exact sums of only the problems you circled.

1 $0.24 + 4.25$

2 $4.8 + 0.16$

3 $2.31 + 2.075$

4 $2.31 + 2.7$

5 $0.909 + 4.09$

6 $3.99 + 1.109$

7 $2.675 + 2.325$

8 $3.775 + 0.225$

9 $2.06 + 2.933$

10 $2.6 + 2.933$

11 $1.809 + 3.091$

12 $3.01 + 1.991$

13 $1.83 + 3.1 + 0.1$

14 $0.012 + 3.79 + 1.101$

15 $2.6 + 2.04 + 0.099$

16 What strategies did you use to solve the problems?

Subtracting Decimals to Hundredths

The answers are mixed up at the bottom of the page. Cross out the answers as you complete the problems.

1 $7.5 - 1.2$

2 $10.75 - 4.13$

3 $20.2 - 14.8$

4 $6.12 - 0.7$

5 $41.5 - 33.25$

6 $15.9 - 8.92$

7 $105.53 - 99.28$

8 $9.46 - 3.68$

9 $74 - 65.9$

10 $5.05 - 0.56$

11 $31.27 - 23.67$

12 $256.4 - 248.38$

13 $12 - 4.39$

14 $1,280.01 - 1,272.77$

15 $500.2 - 494.94$

Answers

6.25

5.26

6.62

8.1

7.6

4.49

8.25

7.61

6.98

5.42

7.24

5.4

8.02

5.78

6.3

Using Estimation with Decimals

Name: _____

Solve the problems.

- 1** Lori needs at least 12 liters of water to fill a water cooler. She has a container with 4.55 liters of water, a container with 3.25 liters of water, and a container with 4.85 liters of water. Does she have enough water? Use estimation only to decide. Explain why you are confident in your estimate.

- 2** Nia wants the total weight of her luggage to be no more than 50 kilograms. She has three suitcases that weigh 15.8 kilograms, 17.42 kilograms, and 16.28 kilograms. Is the total weight within the limit? Use only estimation to decide. Explain how you know your estimate gives you the correct answer.

- 3** Omar measures one machine part with length 4.392 centimeters and another part with length 6.82 centimeters. What is the difference in length? Use estimation to check your answer for reasonableness.

- 4** Kyle wants to buy a hat for \$5.75, a T-shirt for \$7.65, and a keychain for \$3.15. He has \$16. Does he have enough money? Use estimation only to decide. Explain why you are confident in your estimate.
- 5** For his hiking club, Ricardo is making a container of trail mix with 3.5 kilograms of nuts. He has 1.78 kilograms of peanuts and 0.625 kilograms of almonds. The rest of the nuts will be cashews. How many kilograms of cashews does he need? Use estimation to check your answer for reasonableness.
- 6** Suppose you want to be sure that the total cost of three items does not go over a certain amount. How can you use estimation only to solve the problem?

Multiplying a Decimal by a Whole Number

Name: _____

Multiply.

1 3×0.2

2 3×0.03

3 3×0.23

4 4×0.08

5 4×1.1

6 4×1.18

7 6×0.07

8 6×1.1

9 6×1.17

10 21×0.05

11 21×1.05

12 21×2.05

13 9×3.25

14 5×0.87

15 11×3.68

16 16×6.4

17 7×6.89

18 32×5.12

19 How did you know where to put the decimal point in problem 6?