Adding & Subtracting Decimals

Name:

Solve each problem.

Show ALL work.

| 102.227 | 23.4 | 5.6 | 33.999 | 4.1 |
| 45.514 | 112.45 | 67.489 | 82.39 | 10.21 |

1) 85.14 - 17.651 = _____

2) 76 + 6.39 = _____

3) 39 - 28.79 = _____

4) 74 + 38.45 = _____

5) 11 - 5.4 = _____

6) 31.67 + 13.844 = _____

7) 49 - 44.9 = _____

8) 16 + 7.4 = _____

9) 82 - 48.001 = _____

10) 88 + 14.227 = _____

Multiplying with Decimals

Name: _____

Solve each problem. Show ALL work.

Answers

1)
```
    8.67
×   4.7
```

2)
```
   49.26
×    3.4
```

3)
```
    4.9
×   9.3
```

4)
```
    5.20
×   4.4
```

5)
```
   902.8
×    8.9
```

6)
```
    3.9
×  2.4
```

7)
```
   24.3
×   4.1
```

8)
```
   908.7
×    1.5
```

9)
```
    5.3
×   7.9
```

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

Write all answers on loose leaf paper.
Show all work.

3-1 Representing, Comparing, and Ordering Decimals (pp. 108–111)

EXAMPLE

- Write 4.025 in expanded form and words.

  Expanded form: 4 + 0.02 + 0.005

  Word form: four and twenty-five thousandths

- Order the decimals from least to greatest. 7.8, 7.83, 7.08

  7.08 < 7.80 < 7.83   *Compare the numbers.*
  7.08, 7.8, 7.83   *Then order the numbers.*

EXERCISES

Write each in expanded form and words.

1. 5.68   2. 1.0076
3. 1.203   4. 23.005
5. 71.038   6. 99.9999

Order the decimals from least to greatest.

7. 1.2, 1.3, 1.12   8. 11.17, 11.7, 11.07
9. 0.3, 0.303, 0.033   10. 5.009, 5.950, 5.5
11. 101.52, 101.25, 101.025

3-3 Adding and Subtracting Decimals (pp. 118–121)

EXAMPLE

- Find the sum.

  7.62 + 0.563

  $$\begin{array}{r} 7.620 \\ +\,0.563 \\ \hline 8.183 \end{array}$$

  Align the decimal points. Use zeros as placeholders. Add. Place the decimal point.

EXERCISES

Find each sum or difference.

12. 7.08 + 4.5 + 13.27   13. 6 − 0.7
14. 6.21 + 5.8 + 21.01   15. 7.001 − 2.0785
16. 5.1 + 7.98 + 19.25   17. 15.704 − 1.08

3-5 Multiplying Decimals (pp. 130–133)

EXAMPLE

- Find the product.

  $$\begin{array}{r} 0.3 \\ \times\,0.08 \\ \hline 0.024 \end{array}$$

  1 decimal place
  + 2 decimal places
  3 decimal places

EXERCISES

Find each product.

18. 4 × 2.36   19. 0.5 × 1.73
20. 0.6 × 0.012   21. 8 × 3.052
22. 1.2 × 0.45   23. 9.7 × 1.084
24. 9 × 1.08   25. 7.2 × 5.49

3-6 Dividing Decimals by Whole Numbers (pp. 134–136)

EXAMPLE

■ **Find the quotient.**

0.95 ÷ 5

Place a decimal point directly above the decimal point in the dividend. Then divide.

$$\begin{array}{r} 0.19 \\ 5\overline{)0.95} \end{array}$$

EXERCISES

Find each quotient.

26. 6.18 ÷ 6   27. 2.16 ÷ 3

28. 34.65 ÷ 9   29. 20.72 ÷ 8

30. If four people equally share a bill for $14.56, how much should each person pay?

3-7 Dividing by Decimals (pp. 137–140)

EXAMPLE

■ **Find the quotient.**

9.65 ÷ 0.5

Make the divisor a whole number. Place the decimal point in the quotient.

$$\begin{array}{r} 19.3 \\ 5\overline{)96.5} \end{array}$$

EXERCISES

Find each quotient.

31. 4.86 ÷ 0.6   32. 1.85 ÷ 0.3

33. 34.89 ÷ 9   34. 62.73 ÷ 1.2

35. Ana cuts some wood that is 3.75 meters long into 5 pieces of equal length. How long is each piece?

3-8 Interpret the Quotient (pp. 141–143)

EXAMPLE

■ Ms. Ald needs 26 stickers for her preschool class. Stickers are sold in packs of 8. How many packs should she buy?

26 ÷ 8 = 3.25

3.25 is between 3 and 4.
3 packs will not be enough.

Ms. Ald should buy 4 packs of stickers.

EXERCISES

36. Billy has 3.6 liters of juice. How many 0.25 L containers can he fill?

37. There are 34 people going on a field trip. If each car holds 4 people, how many cars will they need for the field trip?