

4.1

Decimal Addition with Carrying

• Example 1

Add 0.35, 1.58, and 0.67.

$ \begin{array}{r} 2 \\ 0.35 \\ 1.58 \\ +0.67 \\ \hline 2.60 \end{array} $	← Carries	<p>In the hundredths column: $5 + 8 + 7 = 20$ Write 0 and carry 2 to the tenths column.</p> <p>In the tenths column: $2 + 3 + 5 + 6 = 16$ Write 6 and carry 1 to the ones column.</p>
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Note: The carrying process works with decimals, just as it did with whole numbers, because each place value is again *one-tenth* the value of the place to its left.

● ● ● CHECK YOURSELF 1

Add 23.546, 0.489, 2.312, and 6.135.

• Example 2

Add 0.53, 4, 2.7, and 3.234.

Note that 0.53 can be written as 0.530 and 4 can be written as 4.000. We obtain:

$$\begin{array}{r}
 0.530 \\
 4.000 \\
 2.700 \\
 + 3.234 \\
 \hline
 10.464
 \end{array}$$

● ● ● CHECK YOURSELF 2

Add 6, 2.583, 4.7, and 2.54.

● ● ● CHECK YOURSELF ANSWERS

1. 32.482. 2.
$$\begin{array}{r} 6.000 \\ 2.583 \\ 4.700 \\ + \underline{2.540} \\ 15.823. \end{array}$$

4.1 Exercises

Name _____

Section _____

Date _____

A N S W E R S

Add.

1.
$$\begin{array}{r} 0.28 \\ +0.79 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 2.59 \\ +0.63 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 2.485 \\ +1.25 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 0.62 \\ 4.23 \\ +12.5 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 0.57 \\ +0.93 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 2.875 \\ +0.95 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 13.86 \\ 3.8 \\ + 0.59 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 4.23 \\ +97.984 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 0.50 \\ 2.99 \\ +24.8 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 5.28 \\ +19.455 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 23.845 \\ + 7.29 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 13.58 \\ 7.239 \\ + 1.5 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 8.625 \\ 2.45 \\ +12.6 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 25.3582 \\ 6.5 \\ 1.898 \\ + 0.69 \\ \hline \end{array}$$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

A N S W E R S

- 15. _____
- 16. _____
- 17. _____
- 18. _____
- 19. _____
- 20. _____
- 21. _____
- 22. _____
- 23. _____
- 24. _____
- 25. _____
- 26. _____
- 27. _____
- 28. _____
- 29. _____
- 30. _____

15.
$$\begin{array}{r} 29.358 \\ 0.24 \\ + 6.7 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 36.8954 \\ 8.7 \\ 1.789 \\ + 0.78 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 1.336 \\ 15.6857 \\ 7.9 \\ + 0.85 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 2.581 \\ 0.24 \\ + 0.7 \\ \hline \end{array}$$

19. $0.43 + 0.8 + 0.561$

20. $1.25 + 0.7 + 0.259$

21. $5 + 23.7 + 8.7 + 9.85$

22. $28.3 + 6 + 8.76 + 3.8$

23. $25.83 + 1.7 + 3.92$

24. $4.8 + 32.59 + 4.76$

25. $42.731 + 1.058 + 103.24$

26. $27.4 + 213.321 + 39.38$

27. $23.5 + 3.26 + 0.96$

28. $528.271 + 1.85 + 18.9$

29. $13.675 + 9 + 0.87 + 235.8$

30. $27.2 + 0.815 + 0.3484 + 7$