

# Adding, Subtracting, Multiplying, and Dividing Decimals

Name: Key

Date: \_\_\_\_\_

- B 1. Find the sum:  $4.2 + 0.13 + 0.072$

A. 0.0622      B. 4.402  
C. 6.22      D. 44.02

$$\begin{array}{r} 4.200 \\ + 0.130 \\ + 0.072 \\ \hline 4.402 \end{array}$$

- A 2. Find the correct product:  $0.034 \times 52.7$

A. 1.7918      B. 5.3819  
C. 53.819      D. 179.18

$$\begin{array}{r} 52.7 \\ \times 0.34 \\ \hline 2108 \\ + 15810 \\ \hline 17918 \end{array}$$

- A 3. Simplify:  $75.060 \div 15$

A. 5.004      B. 5.4      C. 50.4      D. 5004

$$\begin{array}{r} 5.004 \\ 15 \overline{) 75.060} \\ \underline{-75} \phantom{00} \\ 00 \phantom{0} \\ \underline{-00} \phantom{0} \\ 06 \phantom{0} \\ \underline{-06} \phantom{0} \\ 00 \phantom{0} \\ \underline{-00} \phantom{0} \\ 00 \phantom{0} \\ \underline{-00} \phantom{0} \\ 00 \phantom{0} \end{array}$$

- B 4. Find the quotient:  $0.06 \overline{) 0.522}$

A. 6.8      B. 8.7      C. 68      D. 87

$$\begin{array}{r} 8.7 \\ 6 \overline{) 52.2} \\ \underline{-48} \phantom{0} \\ 42 \phantom{0} \\ \underline{-42} \phantom{0} \\ 0 \phantom{0} \end{array}$$

- D 5. The Pitzer family consists of two parents, Ruby, age 13, and Martin, age 8. The family bought movie tickets.

Movie Tickets

Age	Price
Adult	\$10.75
Child 12 and under	\$8.50

How much did the family pay altogether for the tickets?

A. \$19.25      B. \$38.50  
C. \$47.00      D. none of these

$$\begin{array}{r} 10.75 \\ + 10.75 \\ + 10.75 \\ + 8.50 \\ \hline 40.75 \end{array}$$

- B 6. Jason's batting average is 0.165. If he doubles this average, what will be his new average?

A. 0.065      B. 0.330  
C. 6.8000      D. 10.000

$$\begin{array}{r} 0.165 \\ \times 2 \\ \hline 0.330 \end{array}$$

- B 7. Sheli and Kien were washing cars for their neighbors. They decided to put their earnings together and then share it equally. Sheli earned \$15.40 and Kien earned \$17.90. How much money did each person get?

A. \$16.50      B. \$16.65  
C. \$32.50      D. \$33.30

$$\begin{array}{r} 15.40 \\ + 17.90 \\ \hline 33.30 \end{array}$$

$$\begin{array}{r} 16.65 \\ 2 \overline{) 33.30} \\ \underline{-32} \phantom{00} \\ 13 \phantom{0} \\ \underline{-12} \phantom{0} \\ 13 \phantom{0} \\ \underline{-12} \phantom{0} \\ 10 \phantom{0} \\ \underline{-10} \phantom{0} \\ 0 \phantom{0} \end{array}$$

8. Gary needs to buy new socks. The kind he wants are advertised at 6 pairs for \$16.50. Gary only wants to buy 2 pairs. How much will he have to pay, before tax?

A. \$4.13      B. \$5.50  
C. \$8.25      D. none of these

$$\begin{array}{r} 5.50 \\ 3 \overline{) 16.50} \\ \underline{-15} \phantom{0} \\ 15 \\ \underline{-15} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

9. 8 72 5.9 47 39.89  
45.8 100 66.087 0.0765

Find two factors that would result in a product less than 1. Explain your answer.

$$\begin{array}{r} 53 \times 2 \\ 765 \\ \times 59 \\ \hline 16895 \\ + 38250 \\ \hline 45145 \end{array}$$

You need the 2 smallest #s.

10. A sixth-grade class is growing plants for their science projects. Each student spent \$1.00 for a package of seeds and \$2.50 for a container to plant the seeds in. There are 30 students in the class. How much money did the sixth-grade class spend on seeds and containers in all?

A. \$3.50      B. \$105.00  
C. \$165.00      D. \$255.00

$$\begin{array}{r} 35 \\ \times 30 \\ \hline 00 \\ 1050 \\ \hline \$105.00 \end{array}$$

11. When Lily was 7 years old, she earned an allowance of \$2.00 each week. Every year, her parents give her a raise of \$0.50 a week. If this rate continues, what will Lily's allowance be when she is 11 years old?

A. \$2.00 each week      B. \$2.50 each week  
C. \$3.50 each week      D. \$4.00 each week

$$\begin{array}{r} 50 \\ \times 4 \\ \hline 200 \end{array}$$

12. What is the correct placement of the decimal point in the product of the problem below?

$$\begin{array}{r} 1.234 \\ \times 0.90 \\ \hline \end{array}$$

← 3 dec. places      \* Take 0 off the end... so 4 dec. places.  
← 2 dec. places  
+ 5 dec. places in answer

A. 111.06      B. 11.106      C. 1.1106      D. .11106



- B 13. Peyton was given the division problem below to work.

$$1.7 \overline{)1.75}$$

Her work is shown below.

Step 1  $17 \overline{)1.75}$

Step 2  $17 \overline{)17.5}$

Step 3  $17 \overline{)175}$

Step 4  $17 \overline{)1750}$

At which step did Peyton make her first mistake?

- A. Step 1 B. Step 2 C. Step 3 D. Step 4

- B 14. Mr. Nabors bought 3 books for \$3.57. He also bought a pen for \$2.50. What was the cost of one book?

- A. \$1.04 B. \$1.19 C. \$1.25 D. \$1.32

$$\begin{array}{r} 1.19 \\ 3 \overline{)3.57} \\ \underline{-3.6} \\ 0.57 \\ \underline{-0.57} \\ 0 \end{array}$$

- C 15. A one-gallon can of paint costs \$8.67. A five-gallon can of paint costs \$41.15. How much will a painter save if she buys the five-gallon can rather than five one-gallon cans?

2 ways

- A. \$1.80 B. \$1.96 C. \$2.20 D. \$2.50

$$\begin{array}{r} 8.67 \\ \times 5 \\ \hline 43.35 \\ - 41.15 \\ \hline 2.20 \end{array}$$

$$\begin{array}{r} 8.23 \\ 5 \overline{)41.15} \\ \underline{-40.15} \\ 100 \\ \underline{-100} \\ 0 \end{array}$$

$$\begin{array}{r} 8.67 \\ - 8.23 \\ \hline 0.44 \text{ per can} \\ 2.20 \\ \times 5 \\ \hline 2.20 \end{array}$$

A LOT of work for this problem!

- A 16. The grocery store sold milk for \$1.89 a gallon, raisins for \$0.89 a box, and crackers for \$1.59 a box. Mary bought at least one of each and spent \$8.04. What did she buy?

- A. 2 gallons of milk, 3 boxes of raisins, 1 box of crackers  
B. 3 gallons of milk, 1 box of raisins, 1 box of crackers  
C. 1 gallon of milk, 2 boxes of raisins, 3 boxes of crackers  
D. 2 gallons of milk, 2 boxes of raisins, 2 boxes of crackers

milk	\$1.89	\$3.78	\$5.67
raisins	\$0.89	\$1.78	\$2.67
crackers	\$1.59	\$3.18	\$4.77

$$\begin{array}{r} 1.89 \\ \times 2 \\ \hline 3.78 \end{array} \quad \begin{array}{r} 0.89 \\ \times 2 \\ \hline 1.78 \end{array} \quad \begin{array}{r} 1.59 \\ \times 2 \\ \hline 3.18 \end{array} \quad \begin{array}{r} 1.89 \\ \times 3 \\ \hline 5.67 \end{array} \quad \begin{array}{r} 0.89 \\ \times 3 \\ \hline 2.67 \end{array} \quad \begin{array}{r} 1.59 \\ \times 3 \\ \hline 4.77 \end{array}$$

- D 17. The price of a theater ticket increased from \$7.50 to \$7.75. The theater sold 315 tickets at the higher price.

With the price increase, how much more did the theater earn on the tickets?

- A. \$78.00 B. \$78.25 C. \$78.50 D. \$78.75

\$0.25 more per ticket, so...

$$\begin{array}{r} 315 \\ \times 25 \\ \hline 1575 \\ 6300 \\ \hline 7875 \end{array}$$

18. Janelle bought 3 pens for \$2.25. You bought 5 pencils for \$2.95.

- a) How much does 1 pencil cost? \$0.59  
b) How much does 1 pen cost? \$0.75

$$\begin{array}{r} 0.59 \\ 5 \overline{)2.95} \\ \underline{-2.50} \\ 45 \\ \underline{-45} \\ 0 \end{array}$$

$$\begin{array}{r} 0.75 \\ 3 \overline{)2.25} \\ \underline{-2.10} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

- B 19. Jerry is planning to buy a stereo system priced at \$840 through an installment plan. This plan requires a down payment of \$190 and 24 monthly payments of \$32.35.

How much more will Jerry pay for the stereo system by using the installment plan rather than paying cash?

A. \$63.60

C. \$253.60

$$\begin{array}{r} 3235 \\ \times 24 \\ \hline 12940 \\ + 64700 \\ \hline 77640 \end{array}$$

B. \$126.40

D. \$650.00

$$\begin{array}{r} 776.40 \\ + 190.00 \\ \hline 966.40 \\ - 840.00 \\ \hline 126.40 \end{array}$$

- D 20. A 6-ounce box of strawberry gelatin costs \$0.90 and a 3-ounce box costs \$0.42. What is the difference in cost per ounce between the larger and the smaller boxes?

A. \$0.48

B. \$0.04

C. \$0.03

D. \$0.01

$$\begin{array}{r} \text{Larger} \\ 6 \overline{) 90} \\ \underline{60} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

$$\begin{array}{r} \text{Smaller} \\ 3 \overline{) 42} \\ \underline{30} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

$$\begin{array}{r} \text{Difference} \\ .15 \\ - .14 \\ \hline .01 \end{array}$$



## Adding, Subtracting, Multiplying, and Dividing Decimals Practice

- 1) Jan bought four books for the following prices: \$3.95, \$2.95, \$5.00, and \$0.95. She gave the clerk her money and received \$2.15 back in change. How much money did Jan give the clerk?

$$\begin{array}{r} 21 \\ 3.95 \\ 2.95 \\ 5.00 \\ + 0.95 \\ \hline 12.85 \\ + 2.15 \\ \hline 15.00 \end{array}$$

\$15.00

- 2) Marcus bought 2 cases of canned green beans.

- Each case has 24 cans.
- Each can of green beans costs \$0.74, including tax.

$$\begin{array}{r} 31 \\ 74 \\ \times 48 \\ \hline 592 \\ 2960 \\ \hline 3552 \end{array}$$

How much did Marcus spend on green beans? \$35.52

- 3) A school store buys pencils for \$0.15 each.

- It sells the pencils for \$0.22 each.
- The store sold 4 dozen pencils last week.

= 28

Profit = \$ made. If they buy for \$0.15 and sell for \$0.22, that = \$0.07 profit per pencil.

$$\begin{array}{r} 528 \\ \times 7 \\ \hline 196 \end{array}$$

How much profit did the school store make from pencils?

\$1.96

- 4) Jacob had \$340.87 in his checking account. He withdrew \$52.00 and wrote a check for \$18.72. He made a deposit for \$75.37. Find his new balance.

→ took out (-)

→ put in (+)

\$345.52

$$\begin{array}{r} 1310 \\ 2840.87 \\ - 52.00 \\ \hline 2888.87 \\ - 18.72 \\ \hline 2701.15 \\ + 75.37 \\ \hline 3455.2 \end{array}$$

- 5) The Henry family drove 276.5 miles on the family vacation. They used 7.9 gallons of gas. How many miles per gallon of gas did they get on the trip?

276.5 ÷ 7.9

35 miles per gallon

- 6) Subtract 10.0075 from 18.2.

8.1925

$$\begin{array}{r} 18.2000 \\ - 10.0075 \\ \hline 8.1925 \end{array}$$

- 7) George lives 0.25 miles away from school. How far will he walk altogether if he walks to school and back for 5 days?

2.5 miles

$$\begin{array}{r} 1 \text{ Day} = 0.25 \\ + 0.25 \\ \hline 0.50 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

4 total people

- 8) Kevin and his three best friends went to a Jacksonville Jaguars game. The cab ride from the hotel, to the stadium costs \$1.85 per person. In addition, the cab ride will cost \$1.15 per 0.5 mile. The total distance from the hotel to the stadium is two miles.

How much would each person pay if they split the cost evenly?

\$3.00 per person

How many 0.5 miles are in the 2 miles distance?

$$\begin{array}{r} 2 \div 0.5 \\ 5 \overline{) 20} \\ \underline{20} \\ 0 \end{array}$$

$$\begin{array}{r} 115 \\ \times 4 \\ \hline 460 \end{array}$$

total for cab ride  
split between  
4 people = \$1.15  
per person.

$$\begin{array}{r} 1.85 \\ + 1.15 \\ \hline 3.00 \end{array}$$

$$\begin{array}{r} 2.33 \\ + 4.25 \\ \hline 6.58 \end{array}$$

- 9) A band can play as much as 8 minutes of music in a competition. If the band plays a 2.33 minute song and a 4.25 minute song, how many minutes does the band have left?

$$\begin{array}{r} 8.00 \\ - 6.58 \\ \hline 1.42 \end{array}$$

1.42 min.

- 10) Sarah spent a total of \$18.00 on rides at the county fair. Each ride cost \$1.50. How many rides did Sarah go on at the fair?

$$\begin{array}{r} 12 \\ 15 \overline{) 180} \\ - 15 \downarrow \\ \hline 30 \\ - 30 \\ \hline 0 \end{array}$$

$$18 \div 1.5$$

12

- 11) If Michelle solved the following problem, what would be the correct answer?

$$\begin{array}{r} 2.25 \\ 12 \overline{) 27.00} \\ - 24 \downarrow \\ \hline 30 \\ - 24 \downarrow \\ \hline 60 \\ - 60 \\ \hline 0 \end{array}$$

$$127 \div 12$$

2.25

- 12) Mrs. Phillips bought 1.5 pounds of ground beef from Kroger. She paid a total of \$6.75 for the ground beef. What was the price per pound?

$$6.75 \div 1.5$$

$$\begin{array}{r} 4.5 \\ 15 \overline{) 67.5} \\ - 60 \downarrow \\ \hline 75 \\ - 75 \\ \hline 0 \end{array}$$

you're dealing with \$, so you need the hundredths place in your answer.

\$4.50