Decimal Calculations

Decimals • Answer Key

ANSWER KEY • Amplify Alignment: Grade 6 Accelerated, Unit 3, Lesson 14

1. Which vertical calculation for 4.7 + 9.15 is correct?

A

$$\begin{array}{r} 4.7 \\ +\ 9.15 \\ \hline 9.62 \end{array}$$

B

$$\begin{array}{r} 4.70 \\ +\ 9.15 \\ \hline 13.85 \end{array}$$

C

$$\begin{array}{r} 4.7 \\ +\ 9.15 \\ \hline 5.62 \end{array}$$

2. Which vertical calculation for 23 – 2.6 is correct?

A

$$\begin{array}{r} 23 \\ -\ 2.6 \\ \hline 0.3 \end{array}$$

B

$$\begin{array}{r} 23.0 \\ -\ 2.6 \\ \hline 20.4 \end{array}$$

C

$$\begin{array}{r} 23 \\ -\ 2.6 \\ \hline 21.4 \end{array}$$

3. Write the missing number in each calculation so the sum is correct.

a

$$\begin{array}{r} 0.627 \\ +\ \mathbf{0.373} \\ \hline 1.000 \end{array}$$

b

$$\begin{array}{r} 4.058 \\ +\ \mathbf{5.942} \\ \hline 10.000 \end{array}$$

c

$$\begin{array}{r} 62.719 \\ +\ \mathbf{37.281} \\ \hline 100.000 \end{array}$$

4. Write the missing number in each calculation so the difference is correct.

a

$$\begin{array}{r} 0.700 \\ -\ \mathbf{0.436} \\ \hline 0.264 \end{array}$$

b

$$\begin{array}{r} 8.000 \\ -\ \mathbf{7.927} \\ \hline 0.073 \end{array}$$

c

$$\begin{array}{r} 40.000 \\ -\ \mathbf{27.414} \\ \hline 12.586 \end{array}$$

5. The results of a bike race are shown in the table.

Place	Time (seconds)
1	48.62
2	49.175
3	52.308

a Find the time difference between first and second place. **0.555 s**

b Find the time difference between first and third place. **3.688 s**

6. What was the total time of the first, second, and third place riders? **150.103 seconds**

7. Look at these expressions.

Expression 1	Expression 2	Expression 3
5.6 – 0.0042	5.59 – 0.0024	5.58 – 0.042

Tyrone says Expression 2 has the greatest value. Is Tyrone correct? Explain your thinking.

No. Expression 1 = 5.5958, Expression 2 = 5.5876, and Expression 3 = 5.538. Expression 1 has the greatest value.

8. The table shows the times, in seconds, for three swimmers in a 100-meter race.

Swimmer 1	Swimmer 2	Swimmer 3
58.47	57.92	58.09

a Order the swimmers from first place (fastest) to third place. **Swimmer 2, Swimmer 3, Swimmer 1**

b Find the difference between first and third place. Explain what the difference means.

58.47 – 57.92 = 0.55 s. The first-place swimmer finished 0.55 seconds before the third-place swimmer.