

Adding Decimal Fractions

Name: _____

Date: _____

Score: _____ / 24

Q Quick Review

Adding decimals works just like adding whole numbers — you only have to **line up the decimal points** so tenths add with tenths and hundredths add with hundredths. If one decimal has fewer places, fill in a zero so they match: 0.3 becomes 0.30. Then add column by column, starting from the right, and **carry** when a column reaches 10. For example, $0.30 + 0.06 = 0.36$, and $0.6 + 0.7 = 1.3$. It can also help to think in fractions: $0.30 + 0.06 = \frac{30}{100} + \frac{6}{100} = \frac{36}{100}$, which is 0.36.

◇ **Example:** Find $0.8 + 0.15$.

⇒ First make the decimals have the same number of places. Write 0.8 as 0.80 so both have two digits after the point. Now line up the decimal points and add: 0 hundredths plus 5 hundredths is 5 hundredths, and 8 tenths plus 1 tenth is 9 tenths. That gives 0.95. Thinking in fractions, $\frac{80}{100} + \frac{15}{100} = \frac{95}{100} = 0.95$.

Answer: 0.95

PRACTICE

Add the decimals. Line up the decimal points carefully.

- | | | | |
|------------------|-------|-------------------|-------|
| 1. $0.3 + 0.4$ | _____ | 11. $0.6 + 0.7$ | _____ |
| 2. $0.2 + 0.5$ | _____ | 12. $0.9 + 0.8$ | _____ |
| 3. $0.6 + 0.1$ | _____ | 13. $0.45 + 0.55$ | _____ |
| 4. $0.4 + 0.4$ | _____ | 14. $0.38 + 0.24$ | _____ |
| 5. $0.25 + 0.30$ | _____ | 15. $0.56 + 0.29$ | _____ |
| 6. $0.12 + 0.45$ | _____ | 16. $0.7 + 0.45$ | _____ |
| 7. $0.07 + 0.21$ | _____ | 17. $0.63 + 0.9$ | _____ |
| 8. $0.5 + 0.25$ | _____ | 18. $0.84 + 0.07$ | _____ |
| 9. $0.3 + 0.06$ | _____ | 19. $0.5 + 0.5$ | _____ |
| 10. $0.8 + 0.15$ | _____ | 20. $0.99 + 0.99$ | _____ |

◆ Word Problems

21. For a science project, Eli used 0.35 of a liter of water and then added 0.40 of a liter more. How much water did he use in all?

22. Tara walked 0.6 of a mile to the library and then 0.25 of a mile to the park. How far did she walk altogether? _____
23. A snail crawled 0.45 of a meter in the morning and 0.65 of a meter in the afternoon. What is the total distance it crawled?

24. Jordan saved 0.20 of a dollar on Monday, 0.15 of a dollar on Tuesday, and 0.50 of a dollar on Wednesday. How much did he save in all three days?



Answer Keys

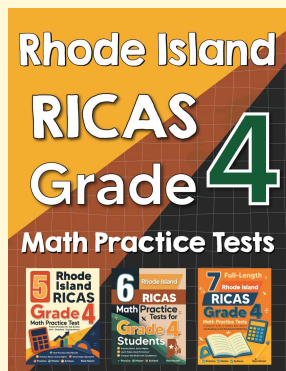
- | | |
|---------------------------------------|---|
| 1. <input type="text" value="0.7"/> | 13. <input type="text" value="1.00"/> |
| 2. <input type="text" value="0.7"/> | 14. <input type="text" value="0.62"/> |
| 3. <input type="text" value="0.7"/> | 15. <input type="text" value="0.85"/> |
| 4. <input type="text" value="0.8"/> | 16. <input type="text" value="1.15"/> |
| 5. <input type="text" value="0.55"/> | 17. <input type="text" value="1.53"/> |
| 6. <input type="text" value="0.57"/> | 18. <input type="text" value="0.91"/> |
| 7. <input type="text" value="0.28"/> | 19. <input type="text" value="1.0"/> |
| 8. <input type="text" value="0.75"/> | 20. <input type="text" value="1.98"/> |
| 9. <input type="text" value="0.36"/> | 21. <input type="text" value="0.75 of a liter"/> |
| 10. <input type="text" value="0.95"/> | 22. <input type="text" value="0.85 of a mile"/> |
| 11. <input type="text" value="1.3"/> | 23. <input type="text" value="1.1 meters"/> |
| 12. <input type="text" value="1.7"/> | 24. <input type="text" value="0.85 of a dollar"/> |

Step-by-Step Explanations

- | | |
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| <p>1. Add the tenths: $3 + 4 = 7$ tenths, so the sum is 0.7.</p> <p>2. Two tenths plus five tenths is seven tenths: 0.7.</p> <p>3. Add the tenths: $6 + 1 = 7$, so $0.6 + 0.1 = 0.7$.</p> <p>4. Four tenths plus four tenths is eight tenths: 0.8.</p> <p>5. Add hundredths: $5 + 0 = 5$. Add tenths: $2 + 3 = 5$. The sum is 0.55.</p> <p>6. Hundredths: $2 + 5 = 7$. Tenths: $1 + 4 = 5$. So the sum is 0.57.</p> <p>7. Hundredths: $7 + 1 = 8$. Tenths: $0 + 2 = 2$. The sum is 0.28.</p> <p>8. Write 0.5 as 0.50. Then $0.50 + 0.25 = 0.75$.</p> <p>9. Write 0.3 as 0.30. Then $0.30 + 0.06 = 0.36$.</p> <p>10. Write 0.8 as 0.80. Then $0.80 + 0.15 = 0.95$.</p> <p>11. Six tenths plus seven tenths is 13 tenths, which is 1.3.</p> <p>12. Nine tenths plus eight tenths is 17 tenths, or 1.7.</p> <p>13. Hundredths: $5 + 5 = 10$, carry 1. Tenths: $4 + 5 + 1 = 10$. The sum is 1.00.</p> <p>14. Hundredths: $8 + 4 = 12$, write 2 and carry 1. Tenths: $3 + 2 + 1 = 6$. The sum is 0.62.</p> | <p>15. Hundredths: $6 + 9 = 15$, write 5 and carry 1. Tenths: $5 + 2 + 1 = 8$. The sum is 0.85.</p> <p>16. Write 0.7 as 0.70. Then $0.70 + 0.45 = 1.15$.</p> <p>17. Write 0.9 as 0.90. Then $0.63 + 0.90 = 1.53$.</p> <p>18. Hundredths: $4 + 7 = 11$, write 1 and carry 1. Tenths: $8 + 0 + 1 = 9$. The sum is 0.91.</p> <p>19. Five tenths plus five tenths is ten tenths, which is one whole: 1.0.</p> <p>20. Hundredths: $9 + 9 = 18$, write 8 carry 1. Tenths: $9 + 9 + 1 = 19$, write 9 carry 1. Ones: 1. The sum is 1.98.</p> <p>21. Line up the decimal points and add: $0.35 + 0.40 = 0.75$ of a liter.</p> <p>22. Write 0.6 as 0.60 so both have two places. Then $0.60 + 0.25 = 0.85$ of a mile.</p> <p>23. Add the hundredths: $5 + 5 = 10$, carry 1. Add tenths: $4 + 6 + 1 = 11$. The sum is 1.10, or 1.1 meters.</p> <p>24. Add them in order: $0.20 + 0.15 = 0.35$, then $0.35 + 0.50 = 0.85$ of a dollar.</p> |
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