

# Expanded Form

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ / 24

## Q Quick Review

**Expanded form** shows a number as the sum of the value of each digit. For the number 574, the 5 is worth 500, the 7 is worth 70, and the 4 is worth 4. So  $574 = 500 + 70 + 4$ . To go back to **standard form**, just add the parts together. If a place has a 0, that part is 0, so we leave it out —  $308 = 300 + 8$ . Expanded form helps you see exactly how much each digit is worth.

◇ **Example:** Write the number 649 in expanded form.

⇒ Let's find the value of each digit. The 6 is in the hundreds place, so it is worth 600. The 4 is in the tens place, so it is worth 40. The 9 is in the ones place, so it is worth 9. Now add those values together to show the expanded form.

**Answer:**  $600 + 40 + 9$

## PRACTICE

Write each number in expanded or standard form as asked.

- |                                     |       |                                     |       |
|-------------------------------------|-------|-------------------------------------|-------|
| 1. Expanded form of 327             | _____ | 11. Standard form of $400 + 60$     | _____ |
| 2. Expanded form of 485             | _____ | 12. Standard form of $900 + 5$      | _____ |
| 3. Expanded form of 760             | _____ | 13. Standard form of $200 + 90 + 4$ | _____ |
| 4. Expanded form of 504             | _____ | 14. Standard form of $500 + 30 + 8$ | _____ |
| 5. Expanded form of 218             | _____ | 15. Standard form of $600 + 70 + 9$ | _____ |
| 6. Expanded form of 936             | _____ | 16. Expanded form of 199            | _____ |
| 7. Expanded form of 870             | _____ | 17. Expanded form of 740            | _____ |
| 8. Expanded form of 603             | _____ | 18. Standard form of $800 + 2$      | _____ |
| 9. Standard form of $300 + 50 + 2$  | _____ | 19. Standard form of $100 + 10 + 1$ | _____ |
| 10. Standard form of $700 + 80 + 1$ | _____ | 20. Expanded form of 456            | _____ |

### ◆ Word Problems

21. Sofia wrote  $400 + 70 + 3$  on her math paper. What number is this in standard form? \_\_\_\_\_
22. A jar holds 625 marbles. Show this number in expanded form. \_\_\_\_\_
23. Ben counted  $300 + 9$  pennies in his piggy bank. How many pennies does he have in standard form? \_\_\_\_\_
24. A farmer picked 580 apples. Write the number of apples in expanded form. \_\_\_\_\_



## Answer Keys

- |                   |                           |
|-------------------|---------------------------|
| 1. $300 + 20 + 7$ | 13. $294$                 |
| 2. $400 + 80 + 5$ | 14. $538$                 |
| 3. $700 + 60$     | 15. $679$                 |
| 4. $500 + 4$      | 16. $100 + 90 + 9$        |
| 5. $200 + 10 + 8$ | 17. $700 + 40$            |
| 6. $900 + 30 + 6$ | 18. $802$                 |
| 7. $800 + 70$     | 19. $111$                 |
| 8. $600 + 3$      | 20. $400 + 50 + 6$        |
| 9. $352$          | 21. $473$                 |
| 10. $781$         | 22. $600 + 20 + 5$        |
| 11. $460$         | 23. $309 \text{ pennies}$ |
| 12. $905$         | 24. $500 + 80$            |

### Step-by-Step Explanations

- |  |  |
|--|--|
| <p>1. Break it by place value: <math>300 + 20 + 7</math>.</p> <p>2. Break it by place value: <math>400 + 80 + 5</math>.</p> <p>3. The ones place is 0, so skip it: <math>700 + 60</math>.</p> <p>4. The tens place is 0, so skip it: <math>500 + 4</math>.</p> <p>5. Break it by place value: <math>200 + 10 + 8</math>.</p> <p>6. Break it by place value: <math>900 + 30 + 6</math>.</p> <p>7. The ones place is 0, so skip it: <math>800 + 70</math>.</p> <p>8. The tens place is 0, so skip it: <math>600 + 3</math>.</p> <p>9. Add the values: <math>300 + 50 + 2 = 352</math>.</p> <p>10. Add the values: <math>700 + 80 + 1 = 781</math>.</p> <p>11. There are no ones, so the number is 460.</p> <p>12. The tens place is 0, so the number is 905.</p> <p>13. Add the values: <math>200 + 90 + 4 = 294</math>.</p> | <p>14. Add the values: <math>500 + 30 + 8 = 538</math>.</p> <p>15. Add the values: <math>600 + 70 + 9 = 679</math>.</p> <p>16. Break it by place value: <math>100 + 90 + 9</math>.</p> <p>17. The ones place is 0, so skip it: <math>700 + 40</math>.</p> <p>18. The tens place is 0, so the number is 802.</p> <p>19. Add the values: <math>100 + 10 + 1 = 111</math>.</p> <p>20. Break it by place value: <math>400 + 50 + 6</math>.</p> <p>21. Add the place values together: <math>400 + 70 + 3 = 473</math>.</p> <p>22. The 6 is worth 600, the 2 is worth 20, and the 5 is worth 5. So <math>625 = 600 + 20 + 5</math>.</p> <p>23. There are no tens, so the tens place gets a 0. The total is <math>300 + 9 = 309</math> pennies.</p> <p>24. The 5 is worth 500 and the 8 is worth 80. The ones place is 0, so <math>580 = 500 + 80</math>.</p> |
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