

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.

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|-------------------------------------|-------|-------------------------------------|-------|
| 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 pennies |
| 12. 905 | 24. $500 + 80$ |

Step-by-Step Explanations

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