Expanded Form

Name: _____	Date: _____	Score: _____ / 24

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 _____
2. Expanded form of 485 _____
3. Expanded form of 760 _____
4. Expanded form of 504 _____
5. Expanded form of 218 _____
6. Expanded form of 936 _____
7. Expanded form of 870 _____
8. Expanded form of 603 _____
9. Standard form of $300 + 50 + 2$ _____
10. Standard form of $700 + 80 + 1$ _____
11. Standard form of $400 + 60$ _____
12. Standard form of $900 + 5$ _____
13. Standard form of $200 + 90 + 4$ _____
14. Standard form of $500 + 30 + 8$ _____
15. Standard form of $600 + 70 + 9$ _____
16. Expanded form of 199 _____
17. Expanded form of 740 _____
18. Standard form of $800 + 2$ _____
19. Standard form of $100 + 10 + 1$ _____
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. $300 + 20 + 7$
2. $400 + 80 + 5$
3. $700 + 60$
4. $500 + 4$
5. $200 + 10 + 8$
6. $900 + 30 + 6$
7. $800 + 70$
8. $600 + 3$
9. 352
10. 781
11. 460
12. 905
13. 294
14. 538
15. 679
16. $100 + 90 + 9$
17. $700 + 40$
18. 802
19. 111
20. $400 + 50 + 6$
21. 473
22. $600 + 20 + 5$
23. 309 pennies
24. $500 + 80$

Step-by-Step Explanations

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

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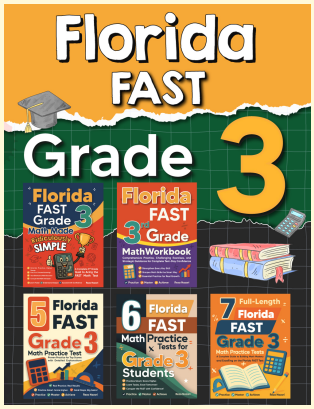

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