

Expanded Form Challenge Worksheet

Numbers up to 200

Grade 1

Name: _____ Date: _____

Section A: Write in Expanded Form (10 points)

Write each number in expanded form.

1. $78 = \underline{\quad\quad} + \underline{\quad\quad}$

2. $145 = \underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

3. $106 = \underline{\quad\quad} + \underline{\quad\quad}$

4. $189 = \underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

5. $170 = \underline{\quad\quad} + \underline{\quad\quad}$

6. $99 = \underline{\quad\quad} + \underline{\quad\quad}$

7. $200 = \underline{\quad\quad}$

8. $152 = \underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

9. $63 = \underline{\quad\quad} + \underline{\quad\quad}$

10. $118 = \underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$

Section B: Write in Standard Form (10 points)

Look at the expanded form and write the number.

11. $90 + 7 = \underline{\quad\quad}$

12. $100 + 30 + 5 = \underline{\quad\quad}$

13. $100 + 60 = \underline{\quad\quad}$

14. $80 + 4 = \underline{\quad\quad}$

15. $100 + 90 + 9 = \underline{\quad\quad}$

16. $100 + 8 = \underline{\quad\quad}$

17. $50 + 0 = \underline{\hspace{2cm}}$

18. $100 + 20 + 6 = \underline{\hspace{2cm}}$

19. $100 + 0 + 2 = \underline{\hspace{2cm}}$

20. $100 + 70 = \underline{\hspace{2cm}}$

Section C: True or False? (8 points)

Write T for True or F for False.

21. $147 = 100 + 40 + 7 \underline{\hspace{1cm}}$

22. $85 = 80 + 5 \underline{\hspace{1cm}}$

23. $130 = 100 + 3 \underline{\hspace{1cm}}$

24. $196 = 100 + 90 + 6 \underline{\hspace{1cm}}$

25. $109 = 10 + 9 \underline{\hspace{1cm}}$

26. $77 = 70 + 7 \underline{\hspace{1cm}}$

27. $200 = 100 + 100 \underline{\hspace{1cm}}$

28. $154 = 100 + 50 + 4 \underline{\hspace{1cm}}$

Section D: Find the Missing Number (10 points)

Fill in the missing numbers.

29. $143 = 100 + \underline{\hspace{1cm}} + 3$

30. $87 = \underline{\hspace{1cm}} + 7$

31. $165 = \underline{\hspace{1cm}} + 60 + 5$

32. $192 = 100 + 90 + \underline{\hspace{1cm}}$

33. $120 = 100 + \underline{\hspace{1cm}} + 0$

34. $58 = 50 + \underline{\hspace{1cm}}$

35. $111 = \underline{\hspace{1cm}} + 10 + 1$

36. $175 = 100 + \underline{\hspace{1cm}} + 5$

37. $94 = \underline{\quad\quad} + 4$

38. $138 = 100 + \underline{\quad\quad} + 8$

Section E: Circle the Correct Answer (6 points)

39. Which shows 167 in expanded form?

- a) $100 + 60 + 7$
- b) $16 + 7$
- c) $100 + 67$
- d) $160 + 7$

40. Which shows 105 in expanded form?

- a) $10 + 5$
- b) $100 + 5$
- c) $100 + 50$
- d) $1 + 5$

41. What is $100 + 80 + 9$ in standard form?

- a) 189
- b) 1089
- c) 809
- d) 198

42. What is the place value of 5 in 152?

- a) 5
- b) 50
- c) 500
- d) 15

43. Which number equals $100 + 40$?

- a) 104

- b) 140
- c) 14
- d) 400

44. What is $90 + 6$ in standard form?

- a) 906
- b) 69
- c) 96
- d) 960

Section F: Match the Forms (6 points)

Draw a line to match each number with its expanded form.

- | | |
|---------|------------------|
| 45. 124 | • $100 + 90 + 5$ |
| 46. 195 | • $100 + 20 + 4$ |
| 47. 83 | • $80 + 3$ |
| 48. 160 | • $100 + 10 + 7$ |
| 49. 117 | • $100 + 60$ |
| 50. 72 | • $70 + 2$ |

Section G: Word Problems (8 points)

51. Sara has 1 hundred-dollar bill, 3 ten-dollar bills, and 8 one-dollar bills. How much money does she have? Write your answer in:

- Standard form: _____
- Expanded form: _____ + _____ + _____

52. A number has 1 hundred, 0 tens, and 9 ones. What is the number?

- Standard form: _____
- Expanded form: _____

53. Tom wrote: $100 + 50 + 2$. What number did he write? _____

54. The expanded form is $100 + 70$. What is the standard form? _____

Section H: Challenge Questions! (12 points)

55. Write the number that comes after 199 in expanded form.

56. I am a 3-digit number. My hundreds digit is 1. My tens digit is 4 more than my ones digit. My ones digit is 3. What number am I?

- Standard form: _____
- Expanded form: _____

57. Circle all the numbers that equal $100 + 30 + 7$:

- 137
- 1307
- one hundred thirty-seven
- 173
- $100 + 37$

58. Write three different ways to show the number 154:

- Way 1 (standard): _____
- Way 2 (expanded): _____
- Way 3 (words): _____

59. If $186 = 100 + 80 + 6$, then what is 180?

- $180 =$ _____

60. Create your own number between 150-175 and write it in expanded form:

- My number: _____
 - Expanded form: _____
-

Section I: Error Detective (6 points)

Find the mistake and write the correct answer.

61. Student wrote: $125 = 100 + 2 + 5$

- What's wrong? _____
- Correct answer: _____

62. Student wrote: $93 = 9 + 3$

- What's wrong? _____
- Correct answer: _____

63. Student wrote: $100 + 60 + 8 = 168$

- Is this correct? _____ If wrong, correct it: _____

Bonus Questions! (4 points)

64. The mystery number is less than 200 but greater than 195. It has 8 in the ones place. What is it? _____

65. Write 88 in expanded form: _____

66. If you add $100 + 40 + 9$, then subtract 9, what expanded form do you get?

ANSWER KEY

Section A: Write in Expanded Form

1. $70 + 8$
2. $100 + 40 + 5$
3. $100 + 6$
4. $100 + 80 + 9$
5. $100 + 70$
6. $90 + 9$
7. 200
8. $100 + 50 + 2$
9. $60 + 3$
10. $100 + 10 + 8$

Section B: Write in Standard Form

11. 97
12. 135
13. 160
14. 84
15. 199
16. 108
17. 50
18. 126
19. 102
20. 170

Section C: True or False?

21. T (True)
22. T (True)

23.F (False) - Should be $100 + 30$

24.T (True)

25.F (False) - Should be $100 + 9$

26.T (True)

27.T (True)

28.T (True)

Section D: Find the Missing Number

29.40

30.80

31.100

32.2

33.20

34.8

35.100

36.70

37.90

38.30

Section E: Circle the Correct Answer

39.a) $100 + 60 + 7$

40.b) $100 + 5$

41.a) 189

42.b) 50

43.b) 140

44.c) 96

Section F: Match the Forms

45. $124 \rightarrow 100 + 20 + 4$

$$46.195 \rightarrow 100 + 90 + 5$$

$$47.83 \rightarrow 80 + 3$$

$$48.160 \rightarrow 100 + 60$$

$$49.117 \rightarrow 100 + 10 + 7$$

$$50.72 \rightarrow 70 + 2$$

Section G: Word Problems

51. Standard form: 138, Expanded form: $100 + 30 + 8$

52. Standard form: 109, Expanded form: $100 + 9$ (or $100 + 0 + 9$)

53. 152

54. 170

Section H: Challenge Questions

55. 200 (or $100 + 100$, or just 200)

56. Standard form: 173, Expanded form: $100 + 70 + 3$

57. Circle: 137, one hundred thirty-seven

58. Way 1: 154, Way 2: $100 + 50 + 4$; Way 3: one hundred fifty-four

59. $180 = 100 + 80$ (or $100 + 80 + 0$)

60. Answers will vary (Example: $165 = 100 + 60 + 5$)

Section I: Error Detective

61. What's wrong: The tens digit should be 20, not 2 Correct answer: $100 + 20 + 5$

62. What's wrong: The tens digit should be 90, not 9 Correct answer: $90 + 3$

63. Yes, this is correct!

Bonus Questions

64. 198

65. $80 + 8$

66. $100 + 40$ (or $100 + 40 + 0$)

Grading Scale:

- 72-80+ points: Excellent! You're an Expanded Form Expert!
- 64-71 points: Great Job! Keep practicing!
- 56-63 points: Good Work! Review the tricky parts.
- Below 56 points: Keep trying! Practice makes perfect!

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