MATH

Expanded form

Name _____ Date _____

🎯 I can write a number in expanded form and back.

1 How it works 💡

Expanded form shows the value of each digit as an addition. 4,365 is 4 thousands, 3 hundreds, 6 tens and 5 ones, so 4,365 = 4,000 + 300 + 60 + 5. If a digit is 0, skip that place: 3,045 = 3,000 + 40 + 5.

4,365

= 4,000 + 300 + 60 + 5

thousands, hundreds, tens, ones

2 Write in expanded form ✏️

Skip any place with a 0.

1. **62,228 =** _____
2. **858 =** _____
3. **13,912 =** _____
4. **402 =** _____
5. **103 =** _____
6. **30,594 =** _____
7. **246 =** _____
8. **42,811 =** _____

How did I do? ☆ ☆ ☆

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MATH · EXPANDED FORM

Practice

Name _____ Date _____

I can go from expanded form back to standard form.

1 Write the standard form

Watch for missing places: write a 0.

1. 8,000 + 70 + 1 = ☐
2. 80,000 + 1,000 + 400 + 80 = ☐
3. 80,000 + 2,000 + 100 + 50 = ☐
4. 4,000 + 200 + 60 = ☐
5. 60,000 + 500 + 90 + 3 = ☐
6. 8,000 + 300 + 4 = ☐
7. 5,000 + 10 + 9 = ☐
8. 40,000 + 9,000 + 700 + 30 = ☐

2 Find the missing part

2,855 = 2,000 + ☐ + 50 + 5

8,966 = 8,000 + ☐ + 60 + 6

9,211 = 9,000 + ☐ + 10 + 1

4,955 = 4,000 + ☐ + 50 + 5

How did I do? ☆ ☆ ☆

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Think deeper

Name _____ Date _____

I can explain my thinking about place value.

1 Write it with multiplication

Example: 352 = 3 × 100 + 5 × 10 + 2 × 1

1. 1,042 = _____
2. 1,404 = _____
3. 8,013 = _____
4. 6,224 = _____

2 Out of order

Put each part in its place.

1. 4,000 + 900 + 60 = ☐
2. 1,000 + 100 + 40 = ☐
3. 3,000 + 20 + 100 = ☐
4. 7,000 + 3 + 300 = ☐

2 Think about it

1. Why does 3,045 have no hundreds part?
2. Which is bigger, 4,000 + 50 or 4,000 + 500?
3. How many parts does 7,000 have?

How did I do? ☆ ☆ ☆

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MATH · EXPANDED FORM

Word problems

Name _____ Date _____

I can use place value to solve problems.

1 Read, think, answer

Use a place value chart if it helps.

1 A library has 4,208 books. Sara writes it as 4,000 + 200 + 8. Why is there no tens part?

Answer: _____

2 Leo has 3 thousands, 5 hundreds, 0 tens and 9 ones. What number is that?

Answer: _____

3 A stadium sold 20,000 + 6,000 + 400 + 30 tickets. Write the number.

Answer: _____

4 Sara says 5,000 + 70 + 3 is 573. Is Sara right?

Answer: _____

How did I do?

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FOR TEACHERS AND PARENTS

Answer key: expanded form

1 Page 1

Expanded: 1) 60,000 + 2,000 + 200 + 20 + 8; 2) 800 + 50 + 8; 3) 10,000 + 3,000 + 900 + 10 + 2; 4) 400 + 2; 5) 100 + 3; 6) 30,000 + 500 + 90 + 4; 7) 200 + 40 + 6; 8) 40,000 + 2,000 + 800 + 10 + 1.

2 Page 2

Standard: 1) 8,071; 2) 81,480; 3) 82,150; 4) 4,260; 5) 60,593; 6) 8,304; 7) 5,019; 8) 49,730.

Missing: 1) 800; 2) 900; 3) 200; 4) 900.

3 Page 3

With multiplication: 1) 1 × 1,000 + 4 × 10 + 2 × 1; 2) 1 × 1,000 + 4 × 100 + 4 × 1; 3) 8 × 1,000 + 1 × 10 + 3 × 1; 4) 6 × 1,000 + 2 × 100 + 2 × 10 + 4 × 1.

Out of order: 1) 4,960; 2) 1,140; 3) 3,120; 4) 7,303.

Think: 1) The hundreds digit is 0; 2) 4,000 + 500; 3) One: 7,000.

4 Page 4: word problems

1) The tens digit is 0, so the tens part is 0.

2) 3,509

3) 26,430 tickets

4) No. It is 5,073.

5 Teaching tip 💡

Use place value cards that slide on top of each other (4,000, 300, 60, 5). Stacking them shows the standard form, and pulling them apart shows the expanded form.

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