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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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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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.

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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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