MATHEMATICS · KINDERGARTEN TO GRADE 3

Expanded form

Difficulty level: Easy

Mathematics: Kindergarten to Grade 3

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Overview of the concept

This is how you show what each digit in a number is worth. The number 345 is 300 + 40 + 5, and seeing it that way helps you read big numbers correctly. It also makes adding and subtracting easier, since you can work with the hundreds, tens, and ones separately. It is the clearest way to see what a number is really made of.



Rule

Expanded form: a number written as the sum of what each digit is worth, by place value.

So 347 = 300 + 40 + 7.

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Worked examples

EXAMPLE 1

Q Write 347 in expanded form

SOLUTION

Split it by place: hundreds, tens, ones.

The 3 is worth 300, the 4 is worth 40, the 7 is worth 7

So 347 = 300 + 40 + 7

EXAMPLE 2

Q Write 85 in expanded form

SOLUTION

Split it by place: tens, ones.

The 8 is worth 80, the 5 is worth 5

So 85 = 80 + 5

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Practice questions

1 Write 123 in expanded form.

- **A** 100 + 30 + 2
- **B** 100 + 20 + 3
- **C** 100 + 20 + 30
- **D** 10 + 2 + 3

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2 Write 56 in expanded form.

- **A** 50 + 60
- **B** 5 + 6
- **C** 60 + 5
- **D** 50 + 6

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3 Write 409 in expanded form.

- A 400 + 0 + 9
- B 400 + 90
- C 40 + 0 + 9
- D 4 + 0 + 9

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4 Write 70 in expanded form.

- A 70 + 7
- B 7 + 0
- C 70 + 0
- D 70 + 10

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5 Write 1,234 in expanded form.

- **A** 1,000 + 200 + 30 + 4
- **B** 100 + 200 + 30 + 4
- **C** 1,000 + 200 + 3 + 4
- **D** 1,000 + 20 + 30 + 4

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6 A number has 3 hundreds, 0 tens, and 5 ones. Write it in expanded form.

- **A** 300 + 50
- **B** 30 + 0 + 5
- **C** 3 + 0 + 5
- **D** 300 + 0 + 5

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7 The expanded form is 200 + 40 + 7. What is the number?

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8 Why is 500 written in expanded form as 500 + 0 + 0 and not just 500? Write one sentence.

A. Because 500 has three digits

B. Expanded form shows the value of every digit, including the zero tens and zero ones

C. Because zero means nothing

D. To make the number look bigger

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9 Which expanded form makes the largest number?

- A $600 + 20 + 4$
- B $500 + 30 + 1$
- C $700 + 0 + 9$

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10 Which expanded form does NOT equal 245?

- A $200 + 40 + 5$
- B $200 + 45$
- C $100 + 100 + 40 + 5$
- D $200 + 30 + 14$

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ANSWER KEY

1. 100 + 20 + 3

2. 50 + 6

3. 400 + 0 + 9

4. 70 + 0

5. 1,000 + 200 + 30 + 4

6. 300 + 0 + 5

7. 247

8. Expanded form shows the value of every digit, including the zero tens and zero ones

9. 700 + 0 + 9

10. 200 + 30 + 14

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