Numerical Expressions

Write, Interpret and Evaluate

Make the order match the meaning

Counted models, clear steps and generous work space

Original contexts and complete worked keys

26 pages | 43 multi-part items | Grade 5

TOUCHSTONE STANDARDS

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TOUCHSTONE STANDARDS

Grade 5 Numerical Expressions

Georgia's K-12 Mathematics Standards

5.NR.5.1

Write, interpret, and evaluate simple numerical expressions involving whole numbers with or without grouping symbols to represent actual situations.

Common Core crosswalk: written to Georgia's standards, these pages also practice 5.OA.A.1 and 5.OA.A.2 (two-operation whole-number expressions, no nested grouping).

Page map: practice / key

3 / 15	Groups and Extra Tiles	5.NR.5.1
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8 / 20	Write and Solve Stories	5.NR.5.1
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10 / 22	Interpret Without Calculating	5.NR.5.1
11 / 23	Write Without Calculating	5.NR.5.1
12 / 24	Explain and Correct Stories	5.NR.5.1
13 / 25	Expression Code	5.NR.5.1
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Build meaning first

43 multi-part items and 12 worked examples. Count equal tile groups and two-part rods. One small square is one tile; slants mark the first rod part and blanks the second.

Two operations, one flat group

Whole-number literals 1-40, exact division, results 0-1,000. No nesting, variables or exponents. Parentheses, brackets and braces have the same role. These are packet limits.

Explain the order

Find the grouped amount first. Multiply/divide before adding/subtracting; equal priority goes left to right. Accept equivalent written forms that preserve meaning. No property naming.

Meaning without a total

Pages 10 and 11 interpret/write without evaluating. Other keys show both steps. Five stories need expressions, quantity reasoning and units. Code: REASON; extra 83 = T.

Follow Touchstone Standards on TPT. An honest review after use helps us improve.

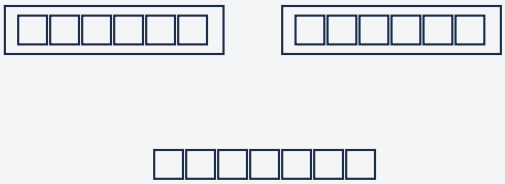
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Groups and Extra Tiles

Name: _____

Count groups and loose tiles. Write an expression, then find the total.

Strategy Spotlight



$2 \times 6 + 7$

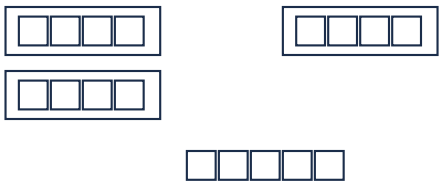
$2 \times 6 = 12$

$12 + 7 = 19$

Small square: one tile.

1.

Small square: one tile.

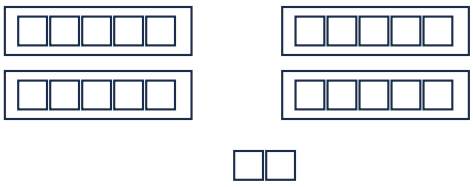


Expression:

Total: _____ tiles

2.

Small square: one tile.

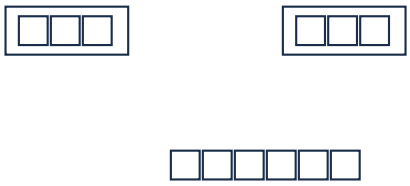


Expression:

Total: _____ tiles

3.

Small square: one tile.

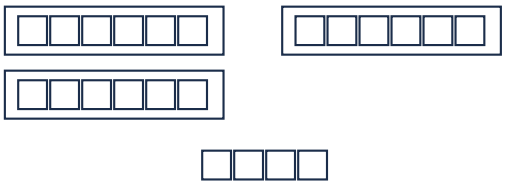


Expression:

Total: _____ tiles

4.

Small square: one tile.



Expression:

Total: _____ tiles

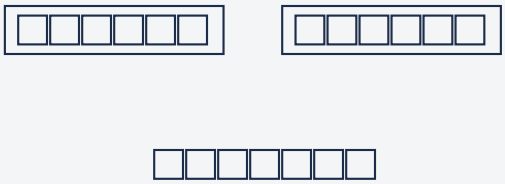
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Answer Key: Groups and Extra Tiles

Student page 3

Count groups and loose tiles. Write an expression, then find the total.

Strategy Spotlight



Small square: one tile.

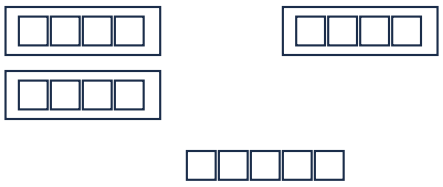
$2 \times 6 + 7$

$2 \times 6 = 12$

$12 + 7 = 19$

1.

Small square: one tile.



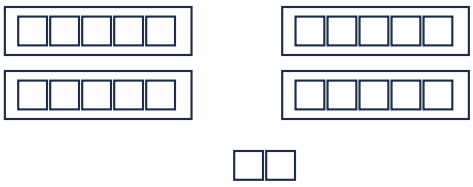
Expression: $3 \times 4 + 5$

Total: 17 tiles

3 × 4 = 12 grouped tiles.
12 + 5 = 17 tiles.

2.

Small square: one tile.



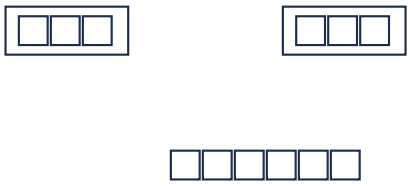
Expression: $4 \times 5 + 2$

Total: 22 tiles

4 × 5 = 20 grouped tiles.
20 + 2 = 22 tiles.

3.

Small square: one tile.



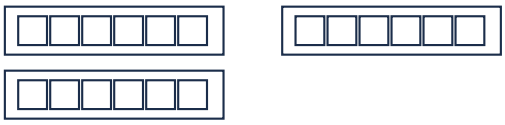
Expression: $2 \times 3 + 6$

Total: 12 tiles

2 × 3 = 6 grouped tiles.
6 + 6 = 12 tiles.

4.

Small square: one tile.



Expression: $3 \times 6 + 4$

Total: 22 tiles

3 × 6 = 18 grouped tiles.
18 + 4 = 22 tiles.

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Explain and Correct Stories

Name: _____

Each claim is wrong. Write a correct expression, solve and explain the mismatch.

◆ **Strategy Spotlight**

7 × [3 + 3]
3 + 3 = 6
7 × 6 = 42

Find the grouped amount first.

33. A mosaic border repeats both tile parts as one unit. Find the total tiles. Explain why the claim counts one part incorrectly.

Repeats: 5 Part one: 4 Part two: 8 Claim: 5 × 4 + 8

Answer: ☐ tiles

34. Two batches of marker cards are pooled for equal installation kits. Find cards per kit. Explain why the claim does not share all cards.

Batch one: 36 Batch two: 18 Kits: 9 Claim: 36 + 18 ÷ 9

Answer: ☐ cards per kit

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Answer Key: Explain and Correct Stories

Student page 12

Each claim is wrong. Write a correct expression, solve and explain the mismatch.

◆ **Strategy Spotlight**

7 × [3 + 3]
3 + 3 = 6
7 × 6 = 42

Find the grouped amount first.

33. A mosaic border repeats both tile parts as one unit. Find the total tiles. Explain why the claim counts one part incorrectly.

Repeats: 5 Part one: 4 Part two: 8 Claim: 5 × 4 + 8

5 × (4 + 8)

4 + 8 = 12

5 × 12 = 60

Both parts repeat; the claim repeats only the first part.

Answer: **60** tiles

34. Two batches of marker cards are pooled for equal installation kits. Find cards per kit. Explain why the claim does not share all cards.

Batch one: 36 Batch two: 18 Kits: 9 Claim: 36 + 18 ÷ 9

(36 + 18) ÷ 9

36 + 18 = 54

54 ÷ 9 = 6

Pool both batches before sharing; the claim shares only the second batch.

Answer: **6** cards per kit

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