LESSON MAKER PRO

Grouping Power

Use grouping symbols to find the correct value.

GRADE 5 · 5.OA.A.1

CCSS.Math.Content.5.OA.A.1 "Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols."

NAME _____ DATE _____

WORK FROM THE INSIDE

Solve the numbers inside grouping symbols before you do the other operations. When grouping symbols are nested, start with the innermost group and work outward. Then multiply or divide before adding or subtracting.

WORKED EXAMPLE

7 x [12 + 5]

1. 12 + 5 = 17
2. 7 x 17 = 119

Answer: 119

PRACTICE 6 problems

1 (14 + 9) x 3

ANSWER _____

2 48 / (10 - 4)

ANSWER _____

3 2 x [18 - (6 + 3)]

ANSWER _____

4 {32 / (3 + 1)} + 11

ANSWER _____

5 [27 - (8 x 2)] + 13

ANSWER _____

6 72 / {4 x (11 - 8)}

ANSWER _____

APPLY IT Show your work

1 Each of 4 teams in an esports club earns 13 points in one match and 8 points in the next match. How many points do the 4 teams earn altogether?

WORK SPACE

ANSWER _____

2 The student council has 6 packs of 14 glow bracelets for the school dance. They give 11 bracelets to the stage crew. How many glow bracelets are left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Evaluate: 2 x {[20 - (4 + 3)] + 6}

WORK SPACE AND ANSWER

ANSWER KEY

Grouping Power

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	(14 + 9) x 3	**69**
2	48 / (10 - 4)	**8**
3	2 x [18 - (6 + 3)]	**18**
4	{32 / (3 + 1)} + 11	**19**
5	[27 - (8 x 2)] + 13	**24**
6	72 / {4 x (11 - 8)}	**6**

PART 2 · APPLY IT

1. **84 points** Each team earns 13 + 8 = 21 points. Multiply 4 x 21 to get 84 points.
2. **73 glow bracelets** Find the total first: 6 x 14 = 84 bracelets. Then subtract 11, so 84 - 11 = 73.

CHALLENGE

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Accept correct work that evaluates the innermost grouping symbols first and reaches the stated value. For word problems, accept equivalent number sentences such as 4 x (13 + 8) and (6 x 14) - 11.