Name _____

Share and Show

Math Board

Evaluate the numerical expression.

1. $10 + 3.6 \div 9$

Think: I need to divide first.

_____

2. $10 + (25 - 10) \div 5$

_____

3. $9 - (3 \times 2) + 8$

_____

Math Talk

MTR 6.1 Assess the reasonableness of solutions.

Raina evaluated the expression $5 \times 2 + 2$ by adding first and then multiplying. Will her answer be correct? Apply the order of operations.

On Your Own

Circle whether the equation is true or false. If the equation is false, rewrite the equation on the right side to make it true.

4. $(4 + 49) - 4 \times 10 = 2 \times (5 + 3)$

true false

_____

5. $36.25 - (7.75 + 5.5) = 5 + 18.25$

true false

_____

6. $(9 \times 10) + (9 \times 5) = 18 \times 15$

true false

_____

Use parentheses to rewrite the equation to make it true.

7. $100 - 30 \div 5 = 14$

_____

8. $12 + 17 - 3 \times 2 = 23$

_____

9. $9 + 5 \div 5 + 2 = 2$

_____

10. Each pitcher of power smoothie that Dominique makes has 2 scoops of pineapple, 3 scoops of strawberries, 1 scoop of spinach, and 1 scoop of kale. If Dominique makes 7 pitchers of power smoothies, how many scoops will he use in all? Write and evaluate a numerical expression containing parentheses.

_____

_____

11. MTR The value of $100 - 30 \div 5$ with parentheses can have a value of 14 or 94. Explain.

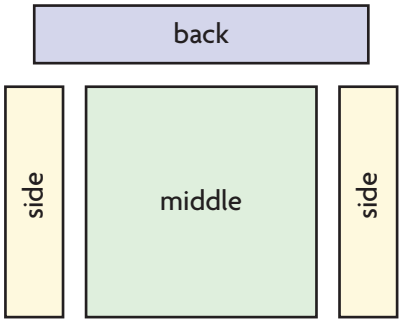
_____

_____

_____

Problem Solving · Applications

12. A movie theater has 4 groups of seats. The largest group of seats, in the middle, has 20 rows, with 20 seats in each row. There are 2 smaller groups of seats on the sides, each with 20 rows and 6 seats in each row. A group of seats in the back has 5 rows, with 30 seats in each row. How many seats are in the movie theater?



a. What do you need to know?

_____

b. What operation can you use to find the number of seats in the back group of seats? Write the expression. _____

c. What operation can you use to find the number of seats in both groups of side seats? Write the expression.

_____

d. What operation can you use to find the number of seats in the middle group? Write the expression.

_____

e. Write an expression to represent the total number of seats in the theater.

_____

_____

f. How many seats are in the theater? Show the steps you use to solve the problem.

_____

_____

13. Write and evaluate two equivalent numerical expressions that show the Distributive Property of Multiplication.

MATH on the Spot

_____

_____

14. Rosalie evaluates the numerical expression $4 + 5 \times 2 - 1$.

Rosalie's first step should be to [add / subtract / multiply].