

Name _____ ANSWER KEY _____ School Team _____

Event 1: Problem Solving (no calculators)

5th/6th grade Math Meet '08

Part 1: Computations (2 pts. each)

Answers must be completely simplified.

$$1) 12 \div .375 = \boxed{32}$$

$$2) \boxed{14} / 35 = 32 / 80$$

$$3) \frac{(12 \times 16 \times 32)}{(64 \times 18 \times 6)} = \boxed{8/9}$$

$$4) 9 + (11 \times 22) = \boxed{2008} \div 8$$

$$5) 3 \times (17 + \boxed{15}) / 8 = 12$$

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Part 2: Defining a new operation (3 pts. each)

Let's define a new operation: $\{A, B, C\} = (A + B) \times (A - B) - (A + C) \times (A - C)$

For example, $\{1, 2, 3\} = (1 + 2) \times (1 - 2) - (1 + 3) \times (1 - 3) = -3 - (-8) = 5$

1) $\{2, 4, 5\} =$

2) $\{7, 8, 9\} =$

3) $\{6, 10, 14\} =$

Circle one:

4) Does $\{A, B, C\} = -\{A, C, B\}$?

no

5) If $A < B < C$, then $\{A, B, C\} > 0 \dots$

always

never