

Name: \_\_\_\_\_ Per. \_\_\_\_\_ Date: \_\_\_\_\_

N-4

For Numbers 1–8, use the order of operations to simplify. *Show all work!*

1  $4^3 \div 2 + 2 \times 8$

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2  $12 - 15 + 3 \times 10 \div 5$

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3  $14 \div (2 + 5) - 6 \times 5$

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4  $-10 \times (42 - 16.8) \div -3$

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5  $\frac{3}{5} \div 4 + (7^2 - 50) \times 3$

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6  $-55 \div (22 - 17) \times (-75 + 8^2)$

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7  $4^3 - 24 \div (6 + 2) - 16 \times (2 + 3)$

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8  $-20.5 - 16 \div 2^3 + (3 \times 12.4) - 9 \div 3^2$

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- 9 Admission to the zoo is \$12 for adults and \$7 for children. The Wren family bought tickets for 2 adults and 3 children. After buying the tickets, they decided to buy a membership for \$100. Their admission was subtracted from the membership cost. How much more did the Wren family need to pay?

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- 10 Find the value of the expression  $18 \div 6 + 3 - 6^2 + 10$ . Then rewrite the expression, but insert one set of parentheses so that the answer becomes  $-40$ .

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- 11 The lowest temperature ever recorded in New Jersey was  $-34^\circ\text{F}$ , at River Vale, in 1904. The formula for converting Fahrenheit to Celsius, where  $F$  is Fahrenheit and  $C$  is Celsius, is given below.

$$C = \frac{5}{9}(F - 32)$$

Use this formula to convert  $-34^\circ\text{F}$  to degrees Celsius. Round your answer to the nearest degree.

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