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Pre-Algebra Date: _____

Distributive Property Basics

Evaluate using the distributive property. Show your work and all steps.

Example: $5(3+2) = 5\cdot3+5\cdot2 = 20+10 = 30$

1) $2(9+4)$

2) $(7-1)4$

3) $6(20+2)$

4) $-5(15+3)$

5) $(18-2)(-3)$

6) $8(2+4+6)$

Use the distributive property in reverse. Write the following expressions using the distributive property. Then evaluate if possible.

Example: $3\cdot3+3\cdot2 = 3(3+2) = 15+30 = 30$

7) $10\cdot12+10\cdot5$

8) $2\cdot9+3\cdot9$

9) $a\cdot2+a\cdot3$

Use the distributive property to evaluate. Show your work.

Example: $2(102) = 2(100+2) = 2\cdot100+2\cdot2 = 200+4 = 204$

$2(98) = 2(100-2) = 2\cdot100-2\cdot2 = 200-4 = 196$

10) $2(101)$

11) $8(22)$

12) $8(15)$

13) $2(97)$

14) $4(197)$

15) $8(1020)$

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