

$$H\omega$$
1. $-4(2+7)^2 - (2.5 + -40 \div 10 * 9)$
3. $8*2^2$
 $1-5+3$
4. $-9(2+1)^2$
5. $\frac{40-12\div 3*4}{8-3^2 \cdot 2}$

★ Example 2:	Simplify the expression:	$\frac{(r+t)^2}{8+2r*3}$ for r = -1 and t = 5
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> Practice: Simplify each expression.

1. 4-2d+c for c=2 and d=10

2. $f^2g + 2f - 1$ for f = -2 and g = 8

3.
$$\frac{(h-k)^2}{3+3k+4}$$
 f for h = 8 and k = 2 4. $\frac{w^2-v+w}{12-3+5}$ for w = -5 and v = 3

4.
$$\frac{w^2 - v * w}{12 - 2 * 5}$$
 for w = -5 and v = 3

★ Real World Problem Solving:

- 5. A neighborhood turned a vacant lot into a skate park, shaped like a trapezoid. The bases of the lot are 100 feet and 200 feet, and the height of the trapezoid that represents the lot is 130 feet long. The formula for the area of a trapezoid is $A = h \left(\frac{b_1 + b_2}{2} \right)$. What is the area of the skate park?
- 6. The equation C = p + rp can be used to find the total cost of any item with price p and tax rate r in a given store. Assume you buy a pair of sneakers for \$88 and the tax rate is 7%. How much will you pay? (Remember to write the percent as a decimal! \odot 7% = _____

____ Unit 1 Class Work

* Simplify each expression:

1.
$$5 + 4 * 2 - 1$$
 2. $\frac{4+5}{-9+6*2}$ 3. $2x^2 - 3 * x + 9$ for $x = 5$