

**Starter** 30-Aug-18

SIMPLIFY.

$$1. \quad -2(2-4) - 3(-2+1)$$

$$\underline{-2(-2)} + 3(-1)$$

$$4 + 3 = \boxed{7}$$

© Evaluate Substitute

1.  $3a - 2^3 \div b$  where  $a = 7$  and  $b = 4$

$$3(7) - 2^3 \div (4)$$

$$\underline{3(7)} - 8 \div (4)$$

$$21 - 8 \div (4)$$

$$\underline{21 - 2} = \boxed{19}$$

2.  $c^4 - d * 2$  where  $c = 2$  and  $d = 5$

$$\underline{(2)^4} - (5) \cdot 2$$

$$16 - (5) \cdot 2$$

$$16 - 10 = \boxed{6}$$

© Evaluate each expression for  $r = 9$  and  $t = 2$

3.  $rt^2$

$$(9)(2)^2$$

$$(9)(4) = \boxed{36}$$

◎ Evaluate each expression for  $r = 9$  and  $t = 2$

4.  $r^2t$

$$(9)^2(2)$$

$$(81)(2)$$

$$\boxed{162}$$

$$\begin{array}{r} 81 \\ \times 2 \\ \hline 162 \end{array}$$

◎ Evaluate each expression for  $r = 9$  and  $t = 2$

5.  $(rt)^2$

$$\left( (9)(2) \right)^2$$

$$(18)^2$$

$$\begin{array}{r} 18 \\ \times 18 \\ \hline 144 \\ 180 \\ \hline \boxed{324} \end{array}$$

Finish the order of operations sheet.

Evaluating Expressions  
Practice work # 2

Evaluate each using the values given.

1)  $x - 5 - z$ ; use  $x = -6$ , and  $z = 3$

2)  $xz - z$ ; use  $x = -2$ , and  $z = -5$

3)  $xz - z$ ; use  $x = -6$ , and  $z = -5$

4)  $m(p + q)$ ; use  $m = 2$ ,  $p = -4$ , and  $q = -4$

5)  $p^2n$ ; use  $n = 5$ , and  $p = 2$

6)  $x + y + z$ ; use  $x = 4$ ,  $y = 4$ , and  $z = 6$

7)  $k(h - j) + h$ ; use  $h = 5$ ,  $j = -4$ , and  $k = 5$

8)  $z + y - (-4 + y)$ ; use  $y = 1$ , and  $z = 4$

9)  $y + 3 + z + x$ ; use  $x = -4$ ,  $y = 3$ , and  $z = 4$

10)  $(-3)^2 + y + z$ ; use  $y = -5$ , and  $z = -5$