

3.3 Warm Up

1. Complete the chart.

Power	Repeated Multiplication	Value
a)	$3 \times 3 \times 3$	
b) $(-10)^5$		
c) -4^2		
d) $-(-9^2)$		

2. Write as a single power. Then, evaluate.

a) $2^4 \times 2^2$

b) $(-4)^2 \times (-4)$

c) $5^4 \div 5^4$

d) $(-9)^5 \div (-9)^3$

3. Use the order of operations to solve each expression.

a) $5 - 6 \div 2 + 12$

$= 5 - \underline{\hspace{2cm}} + 12$ Divide.

$= \underline{\hspace{2cm}} + 12$ Subtract.

$= \underline{\hspace{2cm}}$

b) $-18 + (15 - 12) - 10 \times 2$

$= -18 + \underline{\hspace{2cm}} - 10 \times 2$ Brackets.

$= -18 + \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$ Multiply.

$= -\underline{\hspace{2cm}} - \underline{\hspace{2cm}}$ Add.

$= \underline{\hspace{2cm}}$

c) $15 - (6 + 2) + 12 \div 6$

d) $-9 + 2(15 - 12) - 10$

Order of operations:
 • Brackets
 • Exponents
 • \div and \times in order from left to right
 • $+$ and $-$ in order from left to right

$2(15 - 12)$ is the same as
 $2 \times (15 - 12)$.