

4A.2 Learning Opportunity

Multiplying and Dividing Integers



Name: _____

Solve each of the mathematical expressions below.

1) $-3(11)$

2) $-9 \times (-7)$

3) $5(-2) \cdot 9$

4) $63 \div (-9)$

5) $\frac{0}{-121}$

6) $-7(-5)^2$

Substitute the variable values: $a = -2$, $b = 3$, $c = -7$, and $d = 4$ into each expression below. Then, solve each expression.

7) $b(a - c)$

8) $4a \div d$

9) $9a - (4d + 2c)$

10) $a(b + c) - 7$

- 11) During hibernation, an Arctic ground squirrel can decrease its body temperature to -30°C . Use the formula $F = \frac{9}{5}C + 32$ to convert the squirrel's body temperature to degrees Fahrenheit. (F represents degrees Fahrenheit and C represents degrees Celsius. Substitute -30 for the variable C to calculate the value of the variable F).



For problems 12 through 17, use the number line pictured below to complete the comparisons by filling in each with $<$, $=$, or $>$.



12) $a \div c$ 0

13) $d \div c$ 0

14) $e \div d$ a

15) $0 \div a$ $0 \div e$

16) $e \div a$ $e \div d$

17) $c \div d$ $a \div b$