

Multiply Integers

1. Complete the little multiplication 'rules'.

$$\text{blue circle with } + \times \text{red circle with } + =$$

$$\text{red circle with } + \times \text{blue circle with } + =$$

$$\text{blue circle with } + \times \text{blue circle with } + =$$

$$\text{red circle with } + \times \text{red circle with } + =$$

2. Write each addition as a multiplication, and solve.

a. $-2 + -2 + -2 + -2$

b. $-11 + -11$

c. $-100 + -100 + -100$

3. Multiply.

a. 4×-2

b. -2×11

c. -3×-10

d. -1×-100

e. $8(-2)$

f. $-2(-7)$

g. $(-3)10$

h. $(-1) \times (-1)$

4. Continue and fill in the tables!

a.	x	2x
	3	$2(3) = 6$
	2	$2(2) =$
	1	$2(1) =$
	0	$2(0) =$
	-1	$2(-1) =$
	-2	
	-3	
	-4	

b.	y	$(-3)y$
	3	$(-3)(3) = -9$
	2	$(-3)(2) =$
	1	$(-3)(1) =$
	0	$(-3)(0) =$
	-1	$(-3)(-1) =$
	-2	
	-3	
	-4	

c.	a	$5a + 1$
	2	$5(2) + 1 = 11$
	1	$5(1) + 1 = 6$
	0	
	-1	
	-2	
	-3	
	-4	
	-5	

5. Calculate.

a. $4 \times (-10) + 80$

b. $(-5) \times 11 - 40$

c. $45 + (-3) \times (-10)$

6. Evaluate the expressions when $x = (-10)$ and $y = 2$.

a. xy

b. $-xy$

c. $100 - xy$

d. $xy - 20$

7. Multiply many numbers!

a. $(-10) \times 5 \times (-2)$

b. $4 \times (-4) \times 0 \times (-9)$

c. $100 \times (-1) \times (-3)$

d. $(-3) \times (-2) \times (-5) \times (-2)$

e. $2 \times (-5) \times (-10) \times 5 \times (-3)$

f. $2 \times (-3) \times 4 \times (5)$

8. Solve the equations.

a. $(-10)y = 100$

b. $4a = -36$

c. $z(-7) = -49$

d. $-3w = (-48)$

e. $-5x = -55$

f. $8z = -64$