

Math Practice Sheets

Counting Numbers (Z) Part II

Student Name



Examples

Practice Questions

Extra Challenge Unit

**Unit
14.1****Integer Multiplication****Example**

Multiplying with integers is similar to multiplying with whole numbers. i.e.

Numbers	5.4	-5.4	5(-4)	-5(-4)
Words	5 groups of 4	The opposite of 5 groups of 4	5 groups of -4	The opposite of 5 groups of (-4)
Addition	4+4+4+4+4	-(4+4+4+4+4)	(-4)+(-4)+(-4)+(-4)+(-4)	-[(-4)+(-4)+(-4)+(-4)+(-4)]
Product	20	-20	-20	20

The above table tells us how we can choose the correct sign for the answer. Use the following rules for multiplication of integers.

- To multiply two integers of the same sign, we take the positive sign for the answer.
- To multiply two integers of different signs, we take the negative sign for the answer.

In symbols, if a and b are natural numbers, we write as follows.

$$a \times b = a \times b \quad -a \times (-b) = a \times b \quad a \times (-b) = -(a \times b) \quad -a \times b = -(a \times b)$$

Note that the products $a \times 0$, $-a \times 0$, $0 \times a$, and $0 \times (-a)$ are all zero.

Exercise

1. Find the product of each of the following.

a) $3 \times (-7)$

b) $-8 \times (-5)$

c) 9×6

d) -4×11

e) $0 \times (-2)$

f) $5 \times (-9)$

g) $-7 \times (-7)$

h) -12×0