



Unit 1

Name: _____

Lesson 1.2

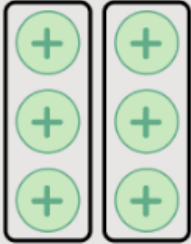
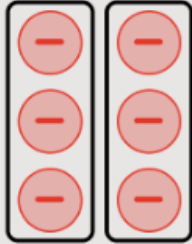
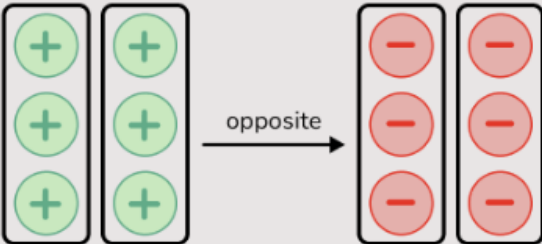
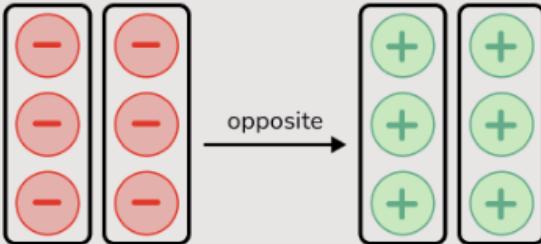
Grade 6A

Date: _____

Multiplying and dividing integers

Worksheet (1)

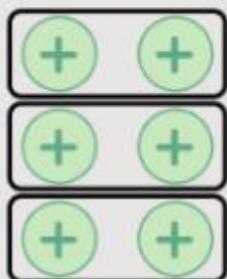
Objective(s): Multiply and divide with positive and negative integers.

Multiplying Integers	
<p>$2 \times 3 = ?$</p> <p>Visual models: Two groups of positive 3 is positive 6.</p>  <p>Product: $2 \times 3 = 6$</p>	<p>$2 \times (-3) = ?$</p> <p>Two groups of negative 3 negative 6.</p>  <p>Product: $2 \times (-3) = -6$</p>
<p>$-2 \times (3) = ?$</p> <p>This is the same as the opposite of 2×3. 2×3 is 6 so the opposite of 6 is -6.</p>  <p>Product: $-2 \times (3) = -6$</p>	<p>$-2 \times (-3) = ?$</p> <p>This is the same as the opposite of $2 \times (-3)$. $2 \times (-3) = -6$ so the opposite of -6 is $+6$</p>  <p>Product: $-2 \times (-3) = 6$</p>

Dividing Integers

$$6 \div 3 = ?$$

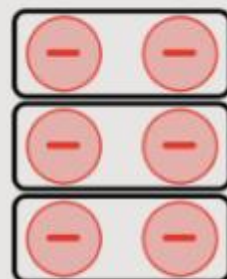
Dividing 6 into 3 equal groups gives two positive counters in each group.



Quotient: $6 \div 3 = 2$

$$-6 \div 3 = ?$$

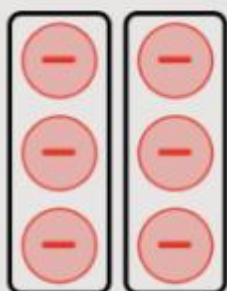
Dividing -6 into 3 equal groups gives two negative counters in each group.



Quotient: $-6 \div 3 = -2$

$$-6 \div (-3) = ?$$

This can be thought of as -6 divided into groups of -3 .

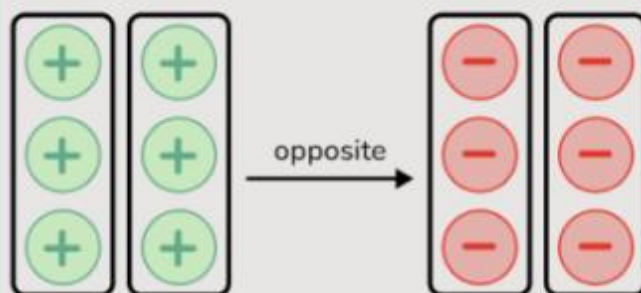


This gives two equal groups.

Quotient: $-6 \div (-3) = 2$

$$6 \div (-3) = ?$$

This can be thought of as 6 divided into groups of -3 .



When looking at the counters there are no groups of -3 in 6.

Let's look at the opposite.

There are two groups of 3 in 6.

So 6 divided into groups of -3 is -2 .

Quotient: $6 \div (-3) = -2$

1. Multiplication of integers:

i. $-3 \times -0 =$ _____

xi. $8 \times -6 =$ _____

ii. $-9 \times 11 =$ _____

xii. $-8 \times 0 =$ _____

iii. $-17 \times -6 =$ _____

xiii. $3 \times -12 =$ _____

iv. $-8 \times 10 =$ _____

xiv. $-6 \times -12 =$ _____

v. $3 \times -9 =$ _____

xv. $-8 \times -18 =$ _____

vi. $6 \times -6 =$ _____

xvi. $27 \times -2 =$ _____

vii. $-6 \times 8 =$ _____

xvii. $-15 \times -4 =$ _____

viii. $-2 \times -9 =$ _____

xviii. $-13 \times -2 =$ _____

ix. $-5 \times -3 =$ _____

xix. $-51 \times 4 =$ _____

x. $10 \times -1 =$ _____

xx. $19 \times 5 =$ _____

1. Division of integers

i. $-110 \div -11 =$ _____

xi. $-28 \div 4 =$ _____

ii. $90 \div -9 =$ _____

xii. $32 \div -8 =$ _____

iii. $50 \div 5 =$ _____

xiii. $-25 \div -5 =$ _____

iv. $-48 \div 12 =$ _____

xiv. $-9 \div -3 =$ _____

v. $-100 \div 10 =$ _____

xv. $24 \div -4 =$ _____

vi. $-72 \div -6 =$ _____

xvi. $-36 \div -4 =$ _____

vii. $-48 \div -6 =$ _____

xvii. $18 \div -2 =$ _____

viii. $43 \div 1 =$ _____

xviii. $16 \div -4 =$ _____

ix. $56 \div -8 =$ _____

xix. $22 \div -2 =$ _____

x. $-81 \div 9 =$ _____

xx. $-10 \div -5 =$ _____