

Please Check your Homework

When you are done,
Please Copy and Complete these
Warm-ups in your spiral.

Title: L1.3 Notes

1. $-12 + (-8)$

2. $-14 + 9$

3. $32 + (-21)$

4. $16 + 12$

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Today's Schedule

- **Check your 1.2 homework with your partner
(answer key on the front table)**
- **Check problems off on the board that you want to go over**
- **1.2 Mini-Assessment**
- **Lesson 1.3 Subtracting Integers**

Lesson 1.3 Notes 9/18

Learning Target: Subtract Integers

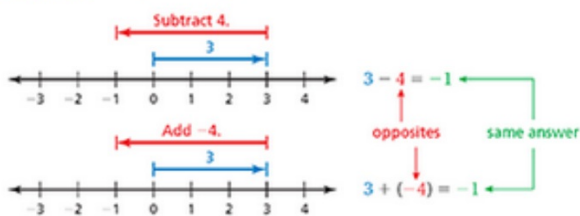
(Learning Target: **Never** Subtract Integers!
Change problems into Addition!)

Key Idea

Subtracting Integers

Words To subtract an integer, add its opposite.

Numbers $3 - 4 = 3 + (-4) = -1$



To Subtract an integer,
Add its **OPPOSITE**

Examples

$$3 - 7 = 3 + (-7) = -4$$

KCO

$$5 - 8 = 5 + 8 = 13$$

$$\star -6 - 2 = -6 + (-2) = -8$$

Keep it

Change it

Opposite

- - -

Copy these problems into your spiral notebook

Subtraction Problem → **Addition Problem**

1. $45 - 11$

$$45 + (-11) = 34$$

2. $-4 - 6$

$$-4 + (-6) = -10$$

3. $13 - 20$

$$13 + (-20) = -7$$

4. $-16 - 9$

$$-16 + (-9) = -25$$

5. $7 - 8 - 12$

$$7 + (-8) + (-12) = -13$$

6. $-15 + 2 - 3$

$$\underbrace{(-15) + 2 + (-3)} = -16$$



Strategies when Adding or Subtracting Integers

(Think about what the numbers can represent)

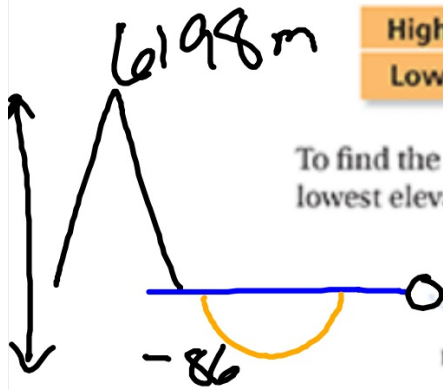
- Integer Chips
- Number Line
- "Teams"
- Temperature Change

EXAMPLE 3 Real-Life Application

Which continent has the greater range of elevations?

	North America	Africa
Highest Elevation	6198 m	5895 m
Lowest Elevation	-86 m	-155 m

To find the range of elevations for each continent, subtract the lowest elevation from the highest elevation.



Greater - Lesser

$$6198 - (-86)$$
$$6198 + 86 = 6277 \text{ m}$$

$$5895 + 155 = 6050 \text{ m}$$

North America

1.3**Practice**

For use after Lesson 1.3

Complete these
in your notebook

Subtract.

1. $3 - 8$

$3 + (-8)$

-5

2. $6 - (-7)$

$6 + 7$

13

3. $-10 - 9$

$-10 + (-9)$

-19

4. $-5 - (-4)$

$-5 + 4$

-1

Evaluate the expression.

5. $11 - (-2) + 14$

$11 + 2 + 14$

27

6. $-16 - (-12) + (-8)$

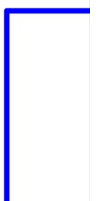
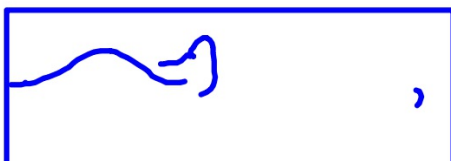
$-16 + 12 + (-8)$

-12

7. $6 - 17 - 4$

$6 + (-17) + (-4)$

-15



Homework

Pg 18 & 19

16 - 42 Evens

