

Warmup 8/(3²) Created by Mr. Lischwe
 Estimate: How Tall Are the Following? (in feet)



151 feet

1) Statue of
Liberty
New York City



986 feet

2) Eiffel Tower
Paris



2722 feet

3) Burj Khalifa
Dubai

4) Get a calculator! If you are using a class calculator, try to familiarize yourself with how it works.

Schedule for the Week

- Today- Expressions and Equations
- Wednesday- Solving Equations
- Thursday- Solving Equations
- Friday- Review and a summative assessment

Tape on the floor...

My Website is ready!

- lischwe.weebly.com

From yesterday...

- Math can be pretty amazing and interesting!
1. Enter the first three digits of your phone number (**not** the area code) into a calculator.
 2. Multiply this 3-digit number by **80**.
 3. Add **1**.
 4. Multiply by **250**.
 5. Add the last 4 digits of your phone number.
 6. Add the last 4 digits of your phone number again.
 7. Subtract **250**.
 8. Divide number by **2**.

By the way...

- On your warmup sheet, you should label each day with either the date or "Monday, Tuesday", etc.
- Using lines to divide each day is also helpful!
- On Friday, you will **TURN IN** the warmups from the week. This means you will need to hang on to this warmup page all week!

Lischwe Age Problem

• How old am I?

On the FIRST page of your binder...

Table of Contents

p. 1 Adding & Subtracting, Expressions & Equations

Today's Objectives

- Be able to add and subtract integers
- Be able to perform operations with fractions
- Interpret expressions and equations

Demonstrate the following on a number line:

- $1 + 7$
- $-3 + 6$
- $17 - 9$
- $-9 - 9$
- $-10 - (-10)$

Do this in your head.
Then think of a way to
describe your thought
process out loud:

$$-22 + 15$$

Do this in your head.
Then think of a way to
describe your thought
process out loud:

$$-5 - 28$$

Burns has a bank account with a balance of \$65.00. Burns paid \$35.00 to his credit card and he spends \$40.00 for a hamburger. What would Burns's bank balance be, after both debits were paid?

The temperature in Anchorage, Alaska was 8° F in the morning and dropped to -5° F in the evening. How many degrees did the temperature drop?

- Write a word problem that involves adding and subtracting integers.
- Be sure to find an answer to your word problem.

Fractions- Viral Problem

- Ben ate $\frac{4}{6}$ of his pizza and Luis ate $\frac{5}{6}$ of his pizza. Marty ate more pizza than Luis. How is that possible?

Brief Fractions Review

$$\bullet \frac{1}{2} + \frac{5}{8}$$

$$\bullet \frac{1}{2} \cdot \frac{5}{8}$$

$$\bullet \frac{1}{2} \div \frac{5}{8}$$

EXPRESSIONS VS EQUATIONS

What is the difference?

Equations contain equal signs!
 Expressions are mathematical phrases
 Equations are mathematical sentences.

What is a variable?

- A variable is a quantity whose value can vary.

$$2x + 5$$

What is a constant?

- Fixed quantity that doesn't change

$$2x + 5$$

What is a coefficient?

- a number that is multiplied by a variable

• Ex: $5x$ $-9y$ $10z$

What are Terms?

- the different parts of the equation- can be a single number or variable

$$\bullet 3x + 2y = 8$$

↓
↓
↓
 term term term

MIX AND MATCH SHEET

Let's play with Equations and Expressions!

Story Problem (on the back of worksheet)

- Anne, Ben, and Nate are doing push-ups. Anne does some, but Ben does 1 more than Anne. Nate does three times as much as Anne. If they do 61 pushups total, how many did Anne do?
 - Define a variable.
 - Set up an equation to describe this situation.