## Warmup 2/(\# of scoring plays in yesterday's Super Bowl)

***Make sure you have a SMALL whiteboard, marker, and eraser inside your desk. No big whiteboards.***

Solve these analogies. Fill in the blanks so that both pairs of items have the same relationship.

1. Basketball: orange :: golf ball: white
2. Blake Shelton: country
3. Solid:melt :: liquid: evaporate
4. Skeptic:belief :: Liar: $\qquad$
5. $16: 4 \quad:: \quad 36:$ $\qquad$ or 9 or 24
6. Addition:multiplication
:: multiplication $\qquad$
$7+7+7+7 \rightarrow 7.4$

## THIS WEEK...

■ No food in class (even if you ask)

- Too many wrappers are being left in desks, crumbs on the floor, etc.


## Exponent \& Scientific Notation Tests...

- Are graded
- We will go over them TOMORROW (too many people haven't taken it yet)

■ By the way, Exponent QUIZ retake deadline is on Friday!!!

## PLAN FOR THIS WEEK:

- Today: Basics of Angles
- Tuesday: Angles formed by Parallel Lines
- Wednesday: Angles of Triangles
- Thursday: Review

■ Friday: Angles Quiz!!!

## Textbook Volume 2!!!

■ Keep your volume 1 somewhere handy - we'll go back to it later.

- Anytime I tell you to bring your textbook now, it should be VOLUME 2.

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## Angle Basics

## Objectives:

- Name angles
- Estimate angle measures
- Measure angles with a protractor
- Classify angles
- Find complementary and supplementary angles
- Find missing angle measures in an " X "


## Brainstorm:

■ What do we remember about angles???

## Parts of an angle

Sides

Vertex

## Quick Question...

- How many angles are in this picture?
- How would I name each one?



## 4 ways to name this angle...



Which angle is has a greater measure?


## 4 "Categories" of angles

- Acute: between 0 and 90 degrees
- Right: exactly 90 degrees
- Obtuse: between 90 and 180 degrees
- Straight: exactly 180 degrees
- (If I were you, I would put a picture representing each type too)
- By the way, an angle over 180 degrees is called a "reflex" angle

Classify Each Angle:


## IMPORTANT GEOMETRY VOCAB

- Two angles that have the same measure are called


## CONGRUENT.

■ Symbol: $\cong$

- Adjacent Angles: Share a side and vertex

- In the diagram, angles 1 and 2 are adjacent.



## Complementary Angles



## COMPLIMENTARY ANGLES

- Complementary Angles are two angles whose measures add up to $90^{\circ}$.
- Supplementary Angles are two angles whose measures add up to $180^{\circ}$.
- (They don’t have to be adjacent!!!)
- What is the complement of a $50^{\circ}$ angle?
- What is the supplement of a $50^{\circ}$ angle?
- What is the complement of a $27^{\circ}$ angle?
- What is the supplement of a $102^{\circ}$ angle?
- What is the supplement of a $155.5^{\circ}$ angle?
- What is the complement of a $45^{\circ}$ angle?
- What is the complement of a $95^{\circ}$ angle?

Find the missing angle measures:


- Vertical Angles:Angles across from each other at the intersection of two straight lines.
- They are always congruent!!!


$$
\angle 1 \cong \angle 3 \text { and } \angle 2 \cong \angle 4
$$

## Straight Angles



- Two angles that form a straight line will always be supplementary!
- $m \angle 1+m \angle 2=180^{\circ}$



## Example

Find the other three angle measures.


HOMEWORK

- Angle Basics Worksheet

