



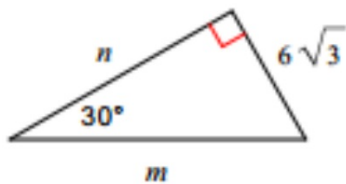
## Do Now

Calculators / Turn in your HW / Worksheet  
Have a seat and work on Do Now!

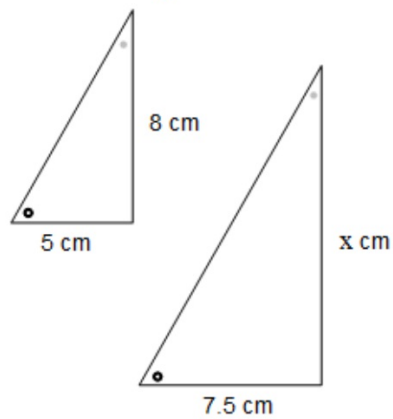


- 1 Below is a "special" triangle. Find  $n$  and  $m$ .      2 Brandon is 5ft 11in tall. How tall is he in inches?

6)



- 3 Two triangles below are similar. Find  $x$ .



## **Agenda!**

- 1. Review of Angle of Elevation and Depression.**
- 2. Group Activity - Unfair Game.**
- 3. Review Packet - Exam is on Wednesday, 16th.**
- 4. Exit Ticket.**



Are angle of elevation and depression the same?

**T/F**

Draw an diagram to prove your answer:

1. A 6-foot-tall man is standing 50 feet from a flagpole. When he looks at the top of the flagpole, the angle of elevation is  $39^\circ$ . Find the height of the flagpole to the nearest foot.



3. A 14-foot ladder is being used to get to the top of a 12-foot-tall wall. At what angle of elevation must the ladder be positioned in order to reach the top of the wall?



5. A little girl is watching planes take off of the runway from a building's rooftop 40 meters away from the airport. If the height of the building is 400 meters and the girl snaps a photo of a plane at a  $24^\circ$  angle of elevation, what is the altitude, or vertical height, of the plane when the photo is taken?



7. A slide at a water park with a constant slope sends riders traveling a distance of 45 feet to the pool at the bottom of the slide. If the depth of the pool is 12 feet and the angle of depression from the top of the slide is  $45^\circ$ , what is the vertical distance from the top of the slide to the bottom of the pool?



3. A blimp provides aerial footage of a football game at an altitude, or vertical height, of **250** meters. The television crew estimates the distance of their line of sight to the stadium to be **1853.2** meters. What is the television crew's angle of depression from inside the blimp?







### *The Unfair Game!*



- 1. There are 10 questions total.*
- 2. Each group will take turns to attempt at a problem.*
- 3. Since stealing possible, every group must try each problem.*
- 4. The group with the most points will either get extra points on the test or 5 tickets for each group members (Your choice!).*

#### *Expectations:*

- Work AND solutions must be shown on the whiteboard when the time is up!*
- Groups who talk during when the teacher is talking will have their points deducted.*
- 40 min total.*
- Use to sentence starters to collaborate!*

## The Unfair Game

Group 1

0

Group 2

0

Group 3

0

Group 4

0

Group 5

0

Group 6

0



### Sentence Starters:

"What is the x for this question?" "I got \_\_\_\_\_, what did you get?"

"How would you draw this?" "I don't get \_\_\_\_\_. Explain"

### Expectations:

- Work AND solutions must be shown on the whiteboard when the time is up!
- Groups who talk during when the teacher is talking will have their points deducted.
- 40 min total.
- Use to sentence starters to collaborate!



Mr. Kim walks 12m directly away from a tree and the height of the tree is 26m. If Mr. Kim is looking at the top of the tree, what is the angle of elevation?



