

Lesson 15: Length Measurements

• Let's solve problems about distances and lengths.

Warm-up: Which One Doesn't Belong: Measurements

Which one doesn't belong?

- A. 3 feet
- B. (3×1) yards
- C. (2×18) inches
- D. $(\frac{1}{3} + \frac{1}{3} + \frac{1}{3})$ yard



15.1: Frisbee Throws

Six students were throwing frisbees on field day. Here is some information about each person's first throw.

student	distance
Han	17 yards
Lin	$51\frac{1}{2}$ feet
Clare	$21\frac{1}{3}$ feet
Andre	22 yards 2 feet
Elena	
Tyler	

- Elena's frisbee went 3 times as far as Clare's did.
- Andre's frisbee went 4 times as far as Tyler's did.



- 1. Complete the table with Elena and Tyler's distances. Explain or show your reasoning.
- 2. Who are the top 3 throwers for that round?

Find out by listing the students and their distances in feet and in order, from longest to shortest.

rank	student	distance (feet)
1		
2		
3		
4		
5		
6		



15.2: Stone Towers

While on an outing, a group of friends had a stone-stacking contest to see who could build the tallest stone tower.



- Andre's stone tower is 3 times as tall as Diego's, but Diego didn't build the shortest tower.
- The tallest tower is 4 feet and 2 inches tall and belongs to Tyler.
- One person built a tower that is 39 inches tall.
- Tyler's tower is 5 times as tall as the shortest tower.
- 1. How tall is each person's stone tower? Be prepared to explain or show your reasoning.

person	tower height (inches)
Andre	
Tyler	
Clare	
Diego	

2. Elena came along and built a tower that is 5 times as tall as Diego's tower. Is Elena's tower more than 6 feet? Show your reasoning.