

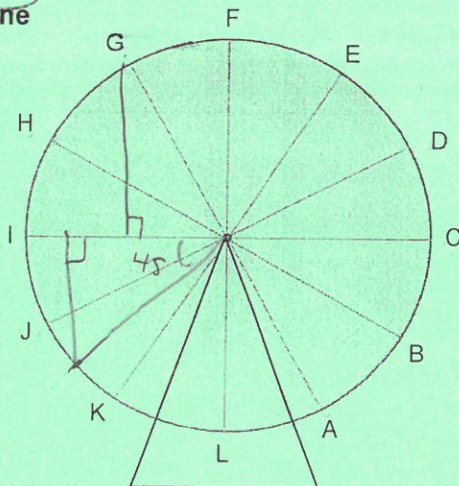
Find # sections!

Key

1

Radius of the Ferris wheel is 15 feet. It takes 48 seconds to complete one full revolution.

Point F is 34 feet off the ground. You get on at point A.

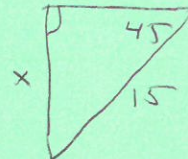
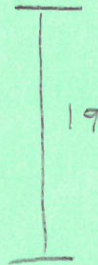


1. What is the angle from A to B? 30°

2. How long does it take to get from A to B? 4sec

3. What is the height at G? 31.99 ft

5. What is the height 38 seconds into the ride? 8.4 ft

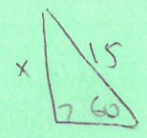


$\sin 45 = \frac{x}{15}$
 10.6

$\frac{48}{12} = 4\text{sec}$

4 sec

$\frac{360}{12} = 30^\circ$



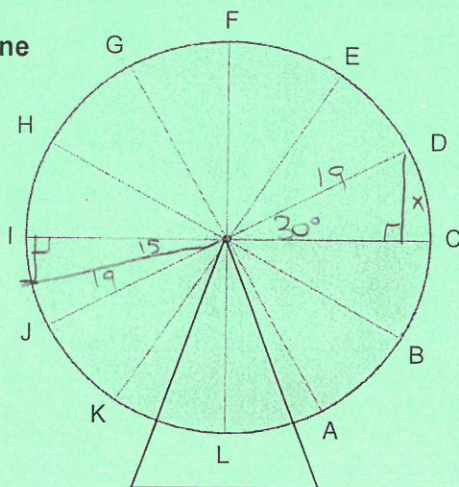
$\sin 60 = \frac{x}{15}$
 ± 12.99

3

At point L you are 6 feet from the ground.

It takes 60 seconds to complete one full revolution.

Point F is 44 feet off the ground. You get on at point A.



1. What is the angle from A to B? 30°

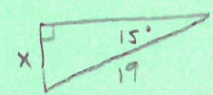
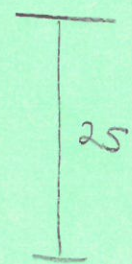
2. How long does it take to get from A to B? 5sec

3. What is the height at D? 34.5 ft

4. What is the height 42.5 seconds into the ride? 20.1 ft

$\frac{42.5}{5} = 8\frac{1}{2}\text{ sections}$

$44 - 6 = 38$
 $R = 19$



$\sin 15 = \frac{x}{19}$
 4.9

$\frac{360}{12} = 30^\circ$

$\frac{60}{12} = 5\text{sec}$

$\sin 30 = \frac{x}{19}$
 ± 9.5

