

## Centripetal Acceleration - UCM.A1

1. What does the word centripetal mean?

*center-seeking*

2. Is an object moving in a circle at a constant speed accelerating? Explain.

*yes*

*velocity includes direction*

3. A dog is tied to a post in the ground by a leash of length 2 meters. If the dog runs at a constant velocity of 4 m/s in a circle around the post, find the dog's centripetal acceleration.



$$a_c = \frac{v^2}{r} = \frac{(4 \frac{m}{s})^2}{2m} = \frac{16 \frac{m^2}{s^2}}{2m} = \boxed{8 \frac{m}{s^2}}$$

*toward the center*



4. A centrifuge spins blood at a velocity of 30 m/s in a circle of diameter 0.1 meter. Find the centripetal acceleration of the blood.

$$a_c = \frac{v^2}{r} = \frac{(30 \frac{m}{s})^2}{0.1m} = \frac{900 \frac{m^2}{s^2}}{0.05m} = \boxed{18000 \frac{m}{s^2}}$$

*toward center*

5. A fighter jet flies in a horizontal circle of radius 20 km as part of a defense patrol. If the jet's speed is 300 m/s, what is the centripetal acceleration of the jet?

$$\frac{20 \text{ km}}{1} \times \frac{1000 \text{ m}}{1 \text{ km}} = 20,000 \text{ m}$$

$$a_c = \frac{v^2}{r} = \frac{(300 \frac{m}{s})^2}{20,000m} = 4.5 \frac{m}{s^2}$$

*toward the center*

6. A toy train makes 16 revolutions around a circular path of radius 0.8 meter in one minute. Find the speed of the train as well as its centripetal acceleration.

$$v = \frac{d}{t} = \frac{16(2\pi(0.8))}{60s} = 1.34 \frac{m}{s}$$

$$a_c = \frac{v^2}{r} = 2.25 \frac{m}{s^2}$$



# Answer Key To Unit Uniform Motion Worksheet 8

**Chandan Sengupta**



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