

Linear or Circular Motion and Angular Speed Practice 2: 2021-2020S

$$v = r\omega$$

$$v_{\text{avg}} = \frac{\Delta x}{\Delta t}$$

$$T = \frac{1}{f}$$

 r = radius T = period: time to make one revolution f = frequency: the number of cycles in one second ω = angular speed v_t = tangential speed

- 1) A carousel rotates at 0.112 revolutions per second. How long does it take a carousel horse on the outer edge to go around the lot?

$$T = \frac{1}{f} = \frac{1}{0.112 \text{ s}^{-1}}$$

$$T = 8.929 \text{ s} \approx 8.93 \text{ s}$$

$$T = \frac{1}{f} = 8.93 \text{ s}$$

- 2) A rider on the carousel from problem 1 is 5.2 meters from the central axis of the carousel. What is the rider's tangential speed? Angular speed?

$$T = 8.93 \text{ s}$$

$$v_t = \frac{2\pi r}{T} = \frac{2\pi(5.2 \text{ m})}{8.93 \text{ s}} = 3.68 \frac{\text{m}}{\text{s}}$$

$$\omega = 0.112 \text{ s}^{-1}$$

$$v_t = 3.68 \frac{\text{m}}{\text{s}}$$

$$\omega = \frac{v_t}{r} = \frac{3.68 \text{ m/s}}{5.2 \text{ m}} = 0.708 \frac{\text{rad}}{\text{s}}$$

Questions 3 & 4: Thomas sits at the very edge of the polygonal merry-go-round. Look at the path between the edge and the center.

- 3) TRUE or FALSE: Thomas and Luke have the same period (T). Justify your answer.

FALSE: The merry-go-round is rigid, so both Thomas and Luke take the same time to make one revolution, so they have the same period.

- 4) TRUE or FALSE: Thomas and Luke have the same tangential speed (v). Justify your answer.

FALSE: Luke sits closer to the center than Thomas. The merry-go-round rotates in one revolution or period, so the period that Thomas travels in one rotation is the same as the period that Luke travels in one rotation. Since Thomas must cover a greater distance in the same amount of time, Thomas has a greater tangential speed.

- 5) The motion of the Earth around the Sun can be approximated as circular motion with a period of 365.25 days. How fast is Earth traveling through space in m/s? (The distance from the Earth to the Sun is $1.5 \times 10^{11} \text{ m}$.)

$$v = \frac{2\pi r}{T} = \frac{2\pi(1.5 \times 10^{11} \text{ m})}{3.156 \times 10^7 \text{ s}} = 29,900 \frac{\text{m}}{\text{s}}$$

- 6) A satellite travels at 4,000 m/s and orbits Earth at a height of $3.0 \times 10^7 \text{ m}$. How long does it take to go around the Earth once? (The radius of Earth is $6.4 \times 10^6 \text{ m}$.)

$$v = \frac{2\pi r}{T}$$

$$r = r_E + r_s = 6.4 \times 10^6 \text{ m} + 3.0 \times 10^7 \text{ m}$$

$$T = \frac{2\pi r}{v} = \frac{2\pi(3.64 \times 10^7 \text{ m})}{4,000 \frac{\text{m}}{\text{s}}} = 5,720 \text{ s} \approx 1.59 \text{ hr}$$

- 7) Gabriella completes four laps of the track in 12 minutes. What is the period of her motion? (in seconds?)

$$T = \text{time for 1 lap} = 1.2 \text{ min} \times \frac{60 \text{ s}}{1 \text{ min}} = 72 \text{ s}$$

$$T = \frac{12 \text{ min}}{4 \text{ (laps)}} = 3 \text{ min}$$

- 8) The track has a radius of 50 m. Calculate Gabriella's average speed.

$$v = \frac{2\pi r}{T} = \frac{2\pi(50 \text{ m})}{120 \text{ s}} = 2.6 \frac{\text{m}}{\text{s}}$$

- 9) When the four laps are complete, Gabriella's average velocity is zero. Why doesn't that contradict your answer to number 8?

Speed is not equal to velocity. Velocity is the displacement or position. She starts and ends in the same place, so her net position does not change, $\Delta x = 0$. Therefore, her average velocity is zero: $v_{\text{avg}} = \frac{\Delta x}{\Delta t} = 0$.

- 10) What is the angular speed of a particle on the top of the minute hand on an analog clock?

$$\omega = \frac{2\pi}{T} = \frac{2\pi}{60 \text{ min}} = \frac{2\pi}{3,600 \text{ s}} = 0.00175 \frac{\text{rad}}{\text{s}}$$

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Table of Contents Concept Review Measuring Motion Teachers Guide

1. Understanding the eBook Concept Review Measuring Motion Teachers Guide
 - The Rise of Digital Reading Concept Review Measuring Motion Teachers Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Concept Review Measuring Motion Teachers Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Concept Review Measuring Motion Teachers Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Concept Review Measuring Motion Teachers Guide
 - Personalized Recommendations
 - Concept Review Measuring Motion Teachers Guide User Reviews and Ratings
 - Concept Review Measuring Motion Teachers Guide and Bestseller Lists

5. Accessing Concept Review Measuring Motion Teachers Guide Free and Paid eBooks
 - Concept Review Measuring Motion Teachers Guide Public Domain eBooks
 - Concept Review Measuring Motion Teachers Guide eBook Subscription Services
 - Concept Review Measuring Motion Teachers Guide Budget-Friendly Options
6. Navigating Concept Review Measuring Motion Teachers Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Concept Review Measuring Motion Teachers Guide Compatibility with Devices
 - Concept Review Measuring Motion Teachers Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Concept Review Measuring Motion Teachers Guide
 - Highlighting and Note-Taking Concept Review Measuring Motion Teachers Guide
 - Interactive Elements Concept Review Measuring Motion Teachers Guide
8. Staying Engaged with Concept Review Measuring Motion Teachers Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Concept Review Measuring Motion Teachers Guide
9. Balancing eBooks and Physical Books Concept Review Measuring Motion Teachers Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Concept Review Measuring Motion Teachers Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Concept Review Measuring Motion Teachers Guide
 - Setting Reading Goals Concept Review Measuring Motion Teachers Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Concept Review Measuring Motion Teachers Guide
 - Fact-Checking eBook Content of Concept Review Measuring Motion Teachers Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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