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Pre calculus grade 11 answer key 2020

Question 1. Match the clocks to the times on the right. Answer: Explanation: Matched the clocks to the times on the right as a. Two thirty to 2:30 b. Five thirty to Half past 5 o' clock, c. 12:30 to Half past 12 o' clock respectively. Question 2. Draw the minute hand so the clock shows the time written above it. a. 7 o'clock Explanation: Drawn the minute hand so the clock shows the time written above it as 7 o' clock as shown above. b. 8 o'clock Explanation: Drawn the minute hand so the clock shows the time written above it as 8 o' clock as shown above. c. 7:30 Explanation: Drawn the minute hand so the clock shows the time written above it as 7:30 as shown above. d. 1:30 Explanation: Drawn the minute hand so the clock shows the time written above it as 1:30 as shown above. e. 2:30 Explanation: Drawn the minute hand so the clock shows the time written above it as 2:30 as shown above. f. 2 o'clock Answer: Explanation: Drawn the minute hand so the clock shows the time written above it as 2 o' clock as shown above. Question 3. Write the time shown on each clock. Complete problems like the first two examples. a. 3:30, Explanation: Wrote the time shown on each clock as 3:30. b. 5:30, Explanation: Wrote the time shown on each clock as 5:30. c. 11:30, Explanation: Wrote the time shown on each clock as 11:30. d. 12:30, Explanation: Wrote the time shown on each clock as 12:30. e. 2:00, Explanation: Wrote the time shown on each clock as 2:00. f. 8:30, Explanation: Wrote the time shown on each clock as 8:30. g. 10:30, Explanation: Wrote the time shown on each clock as 10:30. h. 6:30, Explanation: Wrote the time shown on each clock as 6:30. i. 7:00, Explanation: Wrote the time shown on each clock as 7:00. j. 7:30, Explanation: Wrote the time shown on each clock as 7:30. k. 4:30, Explanation: Wrote the time shown on each clock as 4:30. l. 10:30, Answer: 10:30, Explanation: Wrote the time shown on each clock as 10:30. Question 4. Circle the clock that shows half past 12 o'clock. Answer: Explanation: Circled the clock c that is showing half past 12 o'clock as shown above. Eureka Math Grade 1 Module 5 Lesson 11 Exit Ticket Answer Key Draw the minute hand so the clock shows the time written above it. Question 1. 9:30 Answer: Explanation: Drawn the minute hand so that the clock shows the time written above it which is 9:30. Question 2. 3:30 Answer: Explanation: Drawn the minute hand so that the clock shows the time written above it which is 3:30. Question 3. Write the correct time on the line. 1:30 Answer: It's 1:30. Explanation: The correct time is 1:30. Eureka Math Grade 1 Module 5 Lesson 11 Homework Answer Key Circle the correct clock. Question 1. Half past 2 o'clock Answer: Explanation: Circled the correct clock as half past 2 o'clock. Question 2. Half past 10 o'clock Answer: Explanation: Circled the correct clock as half past 10 o'clock. Question 3. 6 o'clock Answer: Explanation: Circled the correct clock as 6 o'clock. Question 4. Half past 8 o'clock Answer: Explanation: Circled the correct clock as half past 8 o'clock. Write the time shown on each clock to tell about Lee's day. Question 5. Lee wakes up at 6:30. Answer: Lee wakes up at 6:30, Explanation: As shown in the clock Lee wakes up at 6:30. Question 6. He takes the bus to school at 7:30. Answer: He takes the bus to school at 7:30, Explanation: As shown in the clock Lee takes the bus to school at 7:30. Question 7. He has math at 10:30. Answer: Lee has math at 10:30, Explanation: As shown in the clock Lee has math at 10:30. Question 8. He eats lunch at 12:30. Answer: Lee eats lunch at 12:30, Explanation: As shown in the clock Lee eats lunch at 12:30. Question 9. He has basketball practice at 3:30. Answer: He has basketball practice at 3:30, Explanation: As shown in the clock Lee has basketball practice at 3:30. Question 10. He does his homework at 4:30. Answer: Lee does his homework at 4:30, Explanation: As shown in the clock Lee does his homework at 4:30. Question 11. He eats dinner at 5:30. Answer: Lee eats dinner at 5:30, Explanation: As shown in the clock Lee eats dinner at 5:30. Question 12. He goes to bed at 7:30. Answer: Lee goes to bed at 7:30, Explanation: As shown in the clock Lee goes to bed at 7:30. Word Problems on Division of Mixed Fractions | Dividing Mixed Numbers Word Problems Multiplication of Decimals – Definition, Facts, Examples | How to Multiply Decimals by Whole Numbers & Powers of 10? Concept of Decimal – Types, Properties, Arithmetic Operations, Examples Decimals – Definition, Types, Properties, Conversions, Arithmetic Operations, Examples Decimal in Expanded Form – Definition, Facts, Examples | How to Write a Decimal in Expanded Form? Problem Solving on Subtraction | Learn How to Solve Subtraction Problems | Subtraction Word Problems with Answers Common Core 4th Grade Math Word Problems, Lessons, Topics, Practice Tests, Worksheets Problem Solving on Addition | Addition Word Problems with Answers Subtraction without Decomposition (2-Digit Number from 2-Digit Number) | How to Subtract Two Digit Numbers without Decomposition? 2nd Grade Math Curriculum, Topics, Practice Tests, Games, Worksheets 1st Grade Math Curriculum, Worksheets, Word Problems, Games, Practice Tests Example 1. Compute the exact volume for the sphere shown below. Answer: Provide students time to work; then, have them share their solutions. Sample student work: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(4)^3 = \frac{4}{3}\pi(64) = \frac{256}{3}\pi = 85\frac{1}{3}\pi$ The volume of the sphere is $85\frac{1}{3}\pi$ cm³. Example 2. A cylinder has a diameter of 16 inches and a height of 14 inches. What is the volume of the largest sphere that will fit into the cylinder? Answer: → What is the radius of the base of the cylinder? The radius of the base of the cylinder is 8 inches. → Could the sphere have a radius of 8 inches? Explain. No. If the sphere had a radius of 8 inches, then it would not fit into the cylinder because the height is only 14 inches. With a radius of 8 inches, the sphere would have a height of 2r, or 16 inches. Since the cylinder is only 14 inches high, the radius of the sphere cannot be 8 inches. → What size radius for the sphere would fit into the cylinder? Explain. A radius of 7 inches would fit into the cylinder because 2r is 14, which means the sphere would touch the top and bottom of the cylinder. A radius of 7 means the radius of the sphere would not touch the sides of the cylinder, but would fit into it. → Now that we know the radius of the largest sphere is 7 inches, what is the volume of the sphere? Sample student work: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(7)^3 = \frac{4}{3}\pi(343) = \frac{1372}{3}\pi = 457\frac{2}{3}\pi$ The volume of the sphere is $457\frac{2}{3}\pi$ cm³. Eureka Math Grade 8 Module 5 Lesson 11 Exercise Answer Key Exercises 1–3 Exercise 1. What is the volume of a cylinder? Answer: $V = \pi r^2 h$ Exercise 2. What is the height of the cylinder? Answer: The height of the cylinder is the same as the diameter of the sphere. The diameter is 2r. Exercise 3. If volume(sphere) = $\frac{2}{3}$ volume(cylinder with same diameter and height), what is the formula for the volume of a sphere? Answer: Volume(sphere) = $\frac{4}{3}\pi r^3$ Volume(sphere) = $\frac{4}{3}\pi r^3$ Exercise 4. Use the diagram and the general formula to find the volume of the sphere. Answer: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(6)^3 = \frac{4}{3}\pi(216) = 288\pi$ The volume of the sphere is about 288π in³. Exercise 5. The average basketball has a diameter of 9.5 inches. What is the volume of an average basketball? Round your answer to the tenths place. Answer: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(4.75)^3 = \frac{4}{3}\pi(107.17) = 142.9\pi$ The volume of an average basketball is about 142.9π in³. Exercise 6. A spherical fish tank has a radius of 8 inches. Assuming the entire tank could be filled with water, what would the volume of the tank be? Round your answer to the tenths place. Answer: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(8)^3 = \frac{4}{3}\pi(512) = 682.7\pi$ The volume of the fish tank is about 682.7π in³. Exercise 7. Use the diagram to answer the questions. a. Predict which of the figures shown above has the greater volume. Explain. Answer: Student answers will vary. Students will probably say the cone has more volume because it looks larger. b. Use the diagram to find the volume of each, and determine which has the greater volume. Answer: $V = \frac{1}{2}\pi r^2 h = \frac{1}{2}\pi(2.5)(12.6) = 26.25\pi$ The volume of the cone is 26.25π mm³. $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(2.83)^3 = 29.269333\dots\pi$ The volume of the sphere is about 29.27π mm³. The volume of the sphere is greater than the volume of the cone. Exercise 8. One of two half spheres formed by a plane through the sphere's center is called a hemisphere. What is the formula for the volume of a hemisphere? Answer: Since a hemisphere is half a sphere, the volume(hemisphere) = $\frac{1}{2}(\frac{4}{3}\pi r^3)$ (volume of sphere). $V = \frac{1}{2}(\frac{4}{3}\pi r^3) = \frac{2}{3}\pi r^3$ Eureka Math Grade 8 Module 5 Lesson 11 Problem Set Answer Key Question 1. Use the diagram to find the volume of the sphere. Answer: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(9)^3 = \frac{4}{3}\pi(729) = 972\pi$ The volume of the sphere is 972π cm³. Question 2. Determine the volume of a sphere with diameter 9 mm, shown below. Answer: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(4.5)^3 = \frac{4}{3}\pi(91.125) = 121.5\pi$ The volume of the sphere is 121.5π mm³. Question 3. Determine the volume of a sphere with diameter 22 in., shown below. Answer: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(11)^3 = \frac{4}{3}\pi(1331) = 1774\frac{2}{3}\pi$ The volume of the sphere is $1774\frac{2}{3}\pi$ in³. Question 4. Which of the two figures below has the lesser volume? Answer: The volume of the cone: $V = \frac{1}{2}\pi r^2 h = \frac{1}{2}\pi(16)^2(7) = \frac{1}{2}\pi(1792) = 896\pi$ The volume of the sphere: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(23)^3 = \frac{4}{3}\pi(12167) = 16222\frac{2}{3}\pi$ The cone has volume 896π in³ and the sphere has volume 16222.67π in³. The sphere has the lesser volume. Question 5. Which of the two figures below has the greater volume? Answer: The volume of the cylinder: $V = \pi r^2 h = \pi(32)(6.2) = 627.2\pi$ The volume of the sphere: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(53)^3 = \frac{4}{3}\pi(148877) = 198496\pi$ The cylinder has volume 627.2π mm³ and the sphere has volume 198496π mm³. The sphere has the greater volume. Question 6. Bridget wants to determine which ice cream option is the best choice. The chart below gives the description and prices for her options. Use the space below each item to record your findings. A scoop of ice cream is considered a perfect sphere and has a 2-inch diameter. A cone has a 2-inch diameter and a height of 4.5 inches. A cup, considered a right circular cylinder, has a 3-inch diameter and a height of 2 inches. Answer: a. Determine the volume of each choice. Use 3.14 to approximate π. Answer: First, find the volume of one scoop of ice cream. Volume of one scoop = $\frac{4}{3}\pi r^3 = \frac{4}{3}\pi(1)^3 = \frac{4}{3}\pi$ The volume of one scoop of ice cream is $\frac{4}{3}\pi$ in³, or approximately 4.19 in³. The volume of two scoops of ice cream is $\frac{8}{3}\pi$ in³, or approximately 8.37 in³. The volume of three scoops of ice cream is $\frac{12}{3}\pi = 4\pi$ in³, or approximately 12.56 in³. Volume of half scoop = $\frac{2}{3}\pi r^3 = \frac{2}{3}\pi(\frac{1}{2})^3 = \frac{2}{3}\pi(\frac{1}{8}) = \frac{1}{12}\pi$ The volume of half a scoop of ice cream is $\frac{1}{12}\pi$ in³, or approximately 0.26 in³. $V = \pi r^2 h = \pi(1.5)^2(2) = 4.5\pi$ The volume of the cup is 4.5π in³, or approximately 14.13 in³. b. Determine which choice is the best value for her money. Explain your reasoning. Answer: Student answers may vary. Checking the cost for every in³ of each choice: $\frac{4.19}{12.99} \approx 0.323$... $\frac{8.37}{25.98} \approx 0.323$... $\frac{12.56}{38.97} \approx 0.323$... $\frac{4.19}{12.99} \approx 0.323$... $\frac{14.13}{38.97} \approx 0.363$... The best value for her money is the cup filled with ice cream since it costs about 28 cents for every in³. Eureka Math Grade 8 Module 5 Lesson 11 Exit Ticket Answer Key Question 1. What is the volume of the sphere shown below? Answer: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(43)^3 = \frac{4}{3}\pi(79507) = 105342\frac{2}{3}\pi \approx 338000\pi$ The volume of the sphere is $105342\frac{2}{3}\pi$ mm³. Answer: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(33)^3 = \frac{4}{3}\pi(35937) = 47916\pi$ The volume of the sphere is 47916π in³. Question 2. Which of the two figures below has the greater volume? Answer: $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(43)^3 = \frac{4}{3}\pi(79507) = 105342\frac{2}{3}\pi$ The volume of the sphere is $105342\frac{2}{3}\pi$ mm³. $V = \frac{1}{2}\pi r^2 h = \frac{1}{2}\pi(32)^2(6.5) = \frac{1}{2}\pi(65536) = 32768\pi$ The volume of the cone is 32768π mm³. The sphere has the greater volume. Word Problems on Division of Mixed Fractions | Dividing Mixed Numbers Word Problems Multiplication of Decimals – Definition, Facts, Examples | How to Multiply Decimals by Whole Numbers & Powers of 10? Concept of Decimal – Types, Properties, Arithmetic Operations, Examples Decimals – Definition, Types, Properties, Conversions, Arithmetic Operations, Examples Decimal in Expanded Form – Definition, Facts, Examples | How to Write a Decimal in Expanded Form? 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