

**WGU D128 MATHEMATICS FOR ELEMENTARY EDUCATORS OA
EXAM 2023-2024 ACTUAL EXAM 200 QUESTIONS AND CORRECT
DETAILED ANSWERS|ALREADY GRADED A+**

A teacher is making a game of ring toss for her class. She starts by using a circle with a diameter of 10 in. and then cuts out a smaller circle with a diameter of 6 in., leaving a ring as shown in the given image. -

ANSWER- **50.27 sq. cm**

What is the approximate capacity of a spherical water tank with a radius of 7 ft? - ANSWER- **1,436 ft³**

A cylinder has a volume of 484π in.³ and a height of 4 in. What is the radius of the cylinder? - ANSWER- **6.21 inches**

A cylinder has a volume of 600 in.³. Find the volume of a cone with the same radius and height as the cylinder. - ANSWER- **200 cubic inches**

How many square centimeters of sheet metal are required to manufacture a can with a radius of 3.5 cm and a height of 8 cm without overlapping? - ANSWER- **252.77 cm²**

What is the surface area of a sphere with a diameter of 14 in.? - ANSWER- **615.44 in²**

Find the surface area of a rectangular prism with a length of 3 in., a width of 4 in., and a height of 5 in. - ANSWER- **94 in²**

What device would you use to measure the volume of a liquid? - ANSWER- **Graduated Cylinder**

What should a student use to measure the length and width of a textbook? - ANSWER- **Ruler**

A runner runs in a park for 110 minutes. What time did the runner finish running if the runner started at 8:10 a.m.? - ANSWER- **10:00 AM**

An individual wants to buy a house worth \$500,000, but only has \$350,000 in a bank account. What is the deficit? - ANSWER- **150,000**

A pen is 12 cm long. A pencil is 4 cm longer than the pen. What is the total length of the pencil and the pen? - ANSWER- $12\text{ cm} + 16\text{ cm} = \mathbf{28\text{ cm}}$

What is 15 in. in meters, given 1 in. equals 0.0254 m? - ANSWER- **0.381 m**

There are two weeks and three days remaining until the final exam. How many hours are there until the exam? - ANSWER- **408 hours**

A tank can hold 3 gal. of water. The tank currently has 2.5 gal. of water inside. How many liters of water need to be added to fill the tank, given that 1 gal. equals 3.79 L? - ANSWER- **1.895 L**

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How many hours in a week? - ANSWER- **168 hours**

An individual is paying \$50 per day for a rental car. How much will it cost to rent that car for two weeks? - ANSWER- **\$700**

A car is traveling at 50 mph. How far will the car travel in 30 minutes? - ANSWER- **25 miles**

How many students want to take art based on the given diagram? - ANSWER- **20**

What type of graph is depicted? - ANSWER- **box and whisker plot**

Find the mean of this data set: 1, 3, 4, 9, 8, 5, 12 - ANSWER- 6

A student in a statistics class scored an 80%, 85%, and 92% on the first three tests. What must the student score on the last test to have at least an 87% in the class? [- ANSWER- 91%

Given this data set: 6, 2, 9, 0, 1, 5, 9, 4, 3, 2 Which value could be added to the data set so that the median is 3? - ANSWER- 0

Which of the following terms would best describe the given data distribution? {40, 50, 60, 60, 60, 70, 70, 70, 70, 70, 70, 80, 80, 80, 90, 100} - ANSWER- symmetrical

Which of the following is a true statement based on the given histogram of black cherry tree heights? - ANSWER- Black cherry trees have heights between 60 and 90 ft.

A student's average score after the first three quizzes is 88%. What does the student need to score on the fourth quiz to raise the average to 90%? - ANSWER- 96%

A deck of playing cards has 52 total cards. There are four jacks and four aces. Assuming the jack is not replaced, what is the probability of drawing a jack and then an ace from the deck of cards? - ANSWER- 4/663

A jar has 8 black marbles and 8 white marbles. Two marbles are drawn. Assuming the first marble is not replaced, what is the probability of drawing two black marbles? - ANSWER- 7/30

In an experiment, each member of a population is replaced after it is picked. Which of the following terms best describes these events? - ANSWER- Independent