

HiSET Math Test with Answers PDF

Section: HiSET Math Exam • Total Questions: 10 • Format: Verified Q&A

1. Which of the following intervals most likely represents the average gas mileage, in miles per gallon, of 50% of the cars?

- (A) 20 to 32
 - (B) 24 to 32
 - (C) 29 to 32
 - (D) 30 to 44
 - (E) 32 to 44
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2. A medium-sized grain of sand can be approximated as a cube with an edge length of 5×10^{-4} meters. Which expression best represents the number of medium-sized sand grains that could be lined up side by side to result in a total length of 1 meter?

- (A) 2×10^3
 - (B) 2×10^4
 - (C) 2×10^5
 - (D) 5×10^3
 - (E) 5×10^4
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3. The volume of 1 cup of water is 14.4 cubic inches. The diameter of an empty cylindrical can is 3.0 inches. The can holds 2.0 cups of water. What is the height of the can to the nearest 0.1 inch?

- (A) 1
 - (B) 2
 - (C) 3.1
 - (D) 4.1
 - (E) 6.2
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4. Which of the following statements is true about the graphs of $f(x) = x$ and $g(x) = 3x$ in the standard (x, y) coordinate plane?

- (A) The graphs will not intersect.
 - (B) The graphs will intersect only at the point $(0,0)$.
 - (C) The graphs will intersect only at the point $(0,1)$.
 - (D) The graphs will intersect only at the point $(1,1)$.
 - (E) The graphs will intersect only at the point $(3,3)$.
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5. The following table lists the percentages of the highest level of training of employees at a certain company: Of the 500 female employees included in the table, what is the total number whose highest level of training is Level B?

- (A) 100
 - (B) 150
 - (C) 200
 - (D) 250
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6. Which statement correctly identifies and describes the slope of the equation?

The relationship between A , a person's height in inches, and f , the length in inches of the person's femur, is modeled by the equation $h - 1.88f / 32$.

- (A) The slope of the equation is 1.88, and it represents the femur length, in inches, when the height is 32 inches.
 - (B) The slope of the equation is 1.88, and it represents the number of inches the height increases for each inch the femur length increases.
 - (C) The slope of the equation is 1.88, and it represents the number of inches the femur length increases for each inch the height increases.
 - (D) The slope of the equation is 32, and it represents the number of inches the height increases for each inch the femur length increases.
 - (E) The slope of the equation is 32, and it represents the height, in inches, when the femur length is 1.88 inches.
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7. The distance from Earth to the sun is approximately how many $\times$ the diameter of Earth?

The distance from Earth to the sun is approximately 9×10^7 miles. The diameter of Earth is approximately 8,000 miles.

- (A) 1,000
 - (B) 9,000
 - (C) 11,000
 - (D) 90,000
 - (E) 9,000,000
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8. A pair of triangles from which of these groups must be similar to each other?

The following is a list of triangles.

I. Right triangles

II. Isosceles triangles

III. Equilateral triangles

- (A) I only
 - (B) II only
 - (C) III only
 - (D) I and III only
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9. The number of years the employee has been employed by the city is at least 25 years. The sum of the employee's age and number of years employed by the city is at least 90 years. Larry has been employed by the city since his 38th birthday. Assuming he continues to work for the city, at what age will he first qualify for full retirement benefits?

- (A) 52
 - (B) 55
 - (C) 62
 - (D) 63
 - (E) 64
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10. Which expression best represents the number of medium-sized sand grains that could be lined up side by side to result in a total length of 1 meter?

A medium-sized grain of sand can be approximated as a cube with an edge length of 5×10^{-4} meters.

- (A) 2×10^3
- (B) 2×10^4
- (C) 2×10^6
- (D) 5×10^3
- (E) 5×10^4