Mathematical Reasoning GED

Section: GED Mathematical Reasoning Exams • **Total Questions:** 10 • **Format:** Verified Q&A

1. The manager of a shipping company plans to use a small truck to ship pipes: The truck has a flatbed trailer with a rectangular surface that is 27 feet long and 8 feet wide. The truck will travel from Atherton to Bakersfield, where some pipes will be delivered, and then on to Castlewood to deliver the remaining pipes. The map shows the roads that connect Atherton. Bakersfield. and Castlewood. The manager is planning to buy a new truck with better gas mileage. He collected data bout the gas mileage of one of the company's trucks. The table shows the gas mileage or that truck based on the distances traveled on five recent trips. How many different ways can the truck travel from Atherton to Bakersfield a to Castlewood, using the roads on the map?

(A) 6
(B) 8
(C) 9
(D) 5

2. Solve the equation for x: ½ x + 9 = -2/3 x

(A) x=-9/7
(B) x=-54/7
(C) x=-6
(D) x=-54

3. A shipping box for a refrigerator is shaped like a rectangular prism. The box has a depth of 34,25 Inches (in.), a height of 69,37 in., and a width of 32.62 in. To the nearest hundredth cubic inch, what is the volume of the shipping box?

(A) 2,262.85
(B) 77,502.59
(C) 136.24
(D) 25,834.20

4. Last weekend, 625 runners entered a 10,000-meter race. A 10,000- meter race is 6.2 miles long. Ruben won the race with a finishing time of 29 minutes 51 seconds. The graphs show information about the top 10 runners. Based on the scatter plot, what is the range of ages of the top 10 runners?

(A) 9

(B) 1

(C) 16

(D) 40

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5. Solve the inequality for x: -4/3 x + 4 ? 16

(A) x ? 9

(B) x? 9

(C) x =9

(D) x< 9

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6. Tina Is designing a cabin. One of her plans for the cabin is a rectangle twice as long as it is wide, with 10 feet (ft) of the length reserved for the Kitchen and the bathroom. The diagram shows this basic plan. Tina wants the area of the main room to be 300 square feet. Which equation can be used to find x, the width, in feet, of the main room?

(A) $2x^2 + 10x - 300 = 0$

(B) $2x^2 - 10x - 300 = 0$

(C) $2x^2 - 20x - 300 = 0$

(D) $2x^2 + 20x - 300 = 0$

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7. A landscape worker is building a rock wall around a triangular flower garden. He has completed the rock wall on two sides of the garden. The perimeter of the garden is 239 feet. What is the length, in feet, of the rock wall that the worker still needs to complete?

(A) 101

(B) 185

(C) 54

(D) 138

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8. Two men are employed at a local supermarket. The table shows James's earnings, and the graph shows Eric's earnings. Based on the information above, who earns the greater amount per hour, and how much does he earn for a 7-hour shift?

(A) James earns the greater amount per hour and earns $73.50 for a 7-hour shift.

(B) James earns the greater amount per hour and earns $70.00 for a 7-hour shift.

(C) Eric earns the greater amount per hour and earns $70.00 for a 7-hour shift.

(D) Eric earns the greater amount per hour and earns $73.50 for a 7-hour shift.

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9. What is the slope of a line that is perpendicular to the line y = -9x + 7?

(A) 19

(B) -0.111111111

(C) 9

(D) -9

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10. Which expression is equivalent to (3a + 4ab - 7b) - (a + 2b - 4b)?

(A) 2a + 2b - 11b

(B) 2a + 6ab - 11b

(C) 2a + 2b - 3b

(D) 2a + 6ab - 35