GED Mathematical Reasoning Answers

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

1. The equation d/f = g represents gallons of gasoline used, g, in terms of distance traveled in miles, d, and fuel efficiency, / miles per gallon of gasoline. Which combination of distance traveled and fuel efficiency uses 3 gallons of gasoline?

(A) 7 miles and 21 miles per gallon
(B) 57 miles and 19 miles per gallon
(C) 23 miles and 20 miles per gallon
(D) 32 miles and 35 miles per gallon

2. Read the phrase below. the quotient of three less than a number and six more than four × a number Which expression is equivalent to this phrase?

(A) (3-x)/(4x + 6)
(B) (x - 3)(4x + 6)
(C) (x-3)/(4x + 6)
(D) 4x - 3 + 6

3. How many more miles did the space shuttle Discovery travel than the space shuttle Atlantis?

(A) 274,100,000 miles
(B) 274,100 miles
(C) 22.3 miles
(D) 22,300,000 miles

4. 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 bax?

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

5. The U.S. Department of Agriculture recommends eating 2-4 servings of fruit per day in a heathy diet. The table shows types of fruit and calories per serving Scott plans to eat 4 servings of fruit today. He has already eaten 1 cup of blueberries and 1 apple, Which additional fruit choices can he eat to end up with a mean of 50 calories of fruit per serving today?

(A) 1 plum and 1 tangerine

(B) 1 banana and 1 mandarin orange

(C) 1 cup of blueberries and 1 banana

(D) 1 apple and 1 plum

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6. 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. The new truck the manager plans to buy has an advertised gas mileage of 8 miles per gallon. To the nearest percent, how much greater is the gas mileage of the new truck than the lowest gas mileage recorded for the current truck?

(A) 14

(B) 25

(C) 23

(D) 33

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7. Two points (a,b) and (c,d) are shown on a graph. Which of the following equations correctly represents the slope of the line that passes through these points.

(A) (b-d)/(a-c)

(B) (d-b)/(c-a)

(C) (b-d)/(c-a)

(D) (d-b)/(a-c)

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8. A carpenter is installing shelves in 2 offices. Each office will have 4 shelves. The wood the carpenter wants to use comes in 6-foot-long boards. Each shelf is 2 ¼ feet long and is constructed from a single board. How many boards does the carpenter need to buy to make the shelves?

(A) 2

(B) 8

(C) 3

(D) 4

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9. John and Mike are participating in a long-distance bicycling event. Mike bicycled 24 miles in the first 2 hours. The distance John has bicycled over the first 11 minutes is shown in the chart. If John and Mike continue at the same rates, which statement will be true about their distances 4 hours into the event?

(A) John will be 6 miles ahead of Mike.

(B) John will be 12 miles ahead of Mike.

(C) Mike will be 6 miles ahead of John.

(D) Mike will be 12 miles ahead of John.

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10. Which equation represents the graphed line?

(A) y = -1/3x +3

(B) y = 3x - 7

(C) y = 3x + 7

(D) y = 1/3x + 1