



Exam GED-Mathematical-Reasoning

GEDMathematical ReasoningExam

Version: 6.0

[Total Questions: 299]

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Question No : 1

Marion County's total population of 184,026, the number of people employed (including self employed) is 122,939. The number of people employed is broken down by age group in the graph below.



Marion County Employment by Age Group

Which of the following is closest to the number of employed people aged 45 to 54 who live in Marion County?

A. 21,273**B.** 23,516**C.** 26,144

D. 28,055 **E.** 29,891

Answer: D

Question No: 2

Marion County's total population of 184,026, the number of people employed (including self employed) is 122,939. The number of people employed is broken down by age group in the graph below.



Marion County Employment

What is the DIFFERENCE, to the nearest thousand, between the number of employed

people in Marion County in the 25-to-34 age group and the 55-and-over age group?

A. 11,000 **B.** 14,000 **C.** 26,000 **D.** 37,000 **E.** 48,000

Answer: C

Question No: 3

An octagonal lamp has 8 square glass sides. The total area of the glass used for the lamp is given by the formula g = 8x2, where g is the area of the glass and x is the length of one side of the squares.

If the squares have sides whose length is 6 inches, what is the total area (in square inches) of the glass used to make the lamp?

A. 2340

B. 288

C. 96

D. 48

E. 8

Answer: B

Question No: 4

A farmer built a barn at a cost of \$48,000 and wishes to insure it for the same amount. If insurance costs \$0.35 per \$100 of the amount insured, how much must the farmer pay for insurance?

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A. \$35.00
B. \$168.00
C. \$350.00
D. \$480.00
E. \$16,800.00

Answer: B

Question No: 5

Conference Tables

Size of Table	Number of Persons Seated	Cost Per Table	
Small	6	\$12	
Medium	12	\$16	
Large	18	\$20	

The committee responsible for making the arrangements for an upcoming conference can rent the following sizes of tables.

There are 600 people registered for the conference. All of the following combinations of tables will allow all those registered to be seated. Which will allow them to be seated at the LEAST cost?

- A. 33 large tables and 1 small table
- B. 30 large tables and 5 medium tables
- C. 30 medium tables and 40 small tables
- D. 50 medium tables
- E. 100 small tables

Answer: A

Question No: 6

If x = -3 and y = 4, which of the following is the value of the expression 2xy2 + x2?

A. -105 **B.** -87 **C.** -54 **D.** -42 **E.** -39

Answer: B



The length of a diagonal of a square is found using the formula $d = s \times 2$, where d is the length of the diagonal, and s is the measure of a side of the square. What is the distance, rounded to the nearest whole foot, from home plate to second base on a baseball diamond?

- **A.** 90
- **B.** 98
- **C.** 116
- **D.** 127
- **E.** 134

Answer: D

Question No:8

To create a vegetable garden, Lian plans to enclose a 200-square-foot portion of her backyard with fencing. How many feet of fencing will she need?

- **A.** 60
- **B.** 66
- **C.** 90
- **D.** 108
- E. Not enough information is given.

Answer: E

Question No: 9

If n is a positive number, which of the fractions below has the GREATEST value?

A)			
<u>n</u> 4			
B)			
<u>n</u> 6			
C)			
<u>n</u> 8			
D)			

<u>n</u> 10

E.Not enough information is given.

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: A

Question No : 10 CORRECT TEXT



How many gallons of gas were in the generator's gasoline tank before the generator was turned on?

Answer: 10

Answer:



Question No : 11 CORRECT TEXT



At what rate, in gallons per hour, is the gasoline being used by the generator?

Answer: 0.5 gallons per hour

Answer:

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Question No: 12



How many hours does it take to empty the generator's gasoline tank?

A. 18

- **B.** 19
- **C.** 20
- **D.** 21
- **E.** 22

Answer: C

A college recruiter interviewed 18 potential students about their interests. Ten students said they participated in sports and 12 in music programs. All said they participated in at least one of these programs, and some participated in both. How many students said they participated in both sports and music programs?

- **A.** 14
- **B.** 8
- **C.** 6
- **D.** 4
- **E.** 2

Answer: D

Question No: 14

If the letter y represents a negative number, which of the following represents a positive number?

A. y + y B. y 3 C. (1/3)y D. 1.5(y) E. -7(y)

Answer: E

Question No: 15

An irrigation system for a small farm uses 750 gallons of water per hour. The system was turned on for 5 consecutive days for the following numbers of hours: 4.5, 8, 6.5, 2.5, and 8. What was the mean (average) number of gallons of water used daily by the irrigation system during those 5 days?

A. 3,161 **B.** 3,688

C. 4,425 **D.** 21,000 **E.** 22,125

Answer: C



When the bicyclists had traveled for 6 hours, how many miles FARTHER had A gone than B?

A. 3

B. 6

C. 15

D. 30

E. 60

Answer: D



How many MORE hours did it take bicyclist B to travel 40 miles than it took bicyclist A to travel the same distance?

A. 2 **B.** 4 **C.** 8 **D.** 12 **E.** 20

Answer: B

Question No : 18 CORRECT TEXT



The slopes of the lines give the average rates of speed, in miles per hour, for the two bicyclists. What is the average rate of speed, in miles per hour, for bicyclist A?

Answer: 10miles per hour

Answer:



Question No : 19 CORRECT TEXT



If bicyclist B were to travel at his same rate of speed for 10 hours, how many miles would he travel?

Answer: 50miles

Answer:



Question No: 20



Expressions for the measures of the angles of a triangle are shown in the diagram below.

Which of the following equations would be used to find the value of x?

A. 2x + 15 + x + 20 = 3x + 25 **B.** 3x + 25 + 2x + 15 = x + 20 **C.** 3x + 25 + x + 20 = 2x + 15 **D.** 3x + 25 + 2x + 15 + x + 20 = 360**E.** 3x + 25 + 2x + 15 + x + 20 = 180

Answer: E

Question No : 21

The remainder of a bolt of fabric, 971/2 inches long, is to be cut into 3 pieces. One piece is to be 22 inches long, and the other two are to be of equal length. What will be the length, in inches, of each of the two equal pieces?

A)

 $33\frac{1}{2}$

B)			
37 <u>3</u>			
C)			
D)			
48 <u>3</u>			

 $75\frac{1}{2}$

- **A.** Option A**B.** Option B**C.** Option C**D.** Option D
- **E.** Option E

Answer: B



What is the minimum length, in inches, of chain needed to reach from the anchor to the end of the sign?

A. 39

B. 43

C. 47

D. 49

E. 51

Answer: A

Which of the following lists the numbers in order from LEAST to GREATEST?

A. -2,5, -8 **B.** -2, -8,5 **C.** 5, -2, -8 **D.** 5, -8, -2 **E.** -8, -2,5

Answer: E

Question No: 24

Dwayne's dentist appointment is at 20 p.m. He plans to allow 45 minutes for the trip from home to the dentist's office. At what time should he leave his home so that he will arrive at the dentist's office exactly at 20 p.m.?

A. 15 p.m.
B. 25 p.m.
C. 35 p.m.
D. 45 p.m.
E. 55 p.m.

Answer: C



Which of the following represents the PERIMETER of the rectangle?

- **A.** 13x
- **B.** 26x
- **C.** 26
- **D.** 8x2
- **E.** 40x2

Answer: B

Question No : 26 CORRECT TEXT

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Alice's belt rack contains 1 red, 3 black, 4 brown, and 2 blue belts. If she were to randomly select one belt from the rack, what is the probability that it would be black?



3 Answer: A

Answer:



In the figure below, two parallel lines are intersected by a straight line.

What is the measure of angle ABC?

A. 10° **B.** 20° **C.** 80° **D.** 100° **E.** 120°

Answer: C

Question No : 28 CORRECT TEXT

CableTV charges \$37.50 per month for its premium service plus \$3.25 for each movie requested by phone. Andre subscribed to the premium service for 10 months and requested 20 movies by phone during that time. What was the total amount, in dollars, that he paid CableTV during those 10 months?

Answer: 440dollars

Question No: 29

What is the volume, in cubic meters, of a railway boxcar that is 10 meters long,2 meters wide, and 3 meters high?

A. 15 **B.** 20 **C.** 30 **D.** 60 **E.** 113

E. 113

Answer: D

Question No: 30

A local electric company charges \$0.07893740 for each kilowatt-hour of electricity used. To the nearest cent, what is the kilowatt-hour charge for electricity?

A. \$0.07 **B.** \$0.0789 **C.** \$0.079 **D.** \$0.08 **E.** \$0.79

Answer: D



Trapezoid ABCD is shown in the diagram below.

Which of the following words best describes the relationship between side AB and side DC?

- A. equal
- B. perpendicular
- C. intersecting
- D. skewed
- E. parallel

Answer: E



The diagram below shows a ramp that rises uniformly 24 feet over a distance of 80 feet.

How many feet high will the ramp be at a point 60 feet from its beginning?

A. 4 **B.** 18 **C.** 19.2 **D.** 32 **E.** 60

Answer: B

Question No: 33

Plastic recyclables are collected every Monday in Kingsview. If the first Monday of the month falls on the 4th, which of the following dates will also be a Monday during that month?

A. 14th

B. 17th

C. 19th

D. 21st

E. 25th

Answer: E

Question No: 34

For the weekend sale, a department store reduced the price of all merchandise by 15% of the list price. What is the sale price of a pair of running shoes whose list price is \$72.00?

A. \$10.80 **B.** \$15.00 **C.** \$57.00 **D.** \$61.20 **E.** \$70.85

Answer: D

Question No: 35

In a shipment of 400 computer chips, were found to be satisfactory. How many computer chips in the shipment were found to be satisfactory?

A. 80

B. 100

C. 300

- **D.** 320
- **E.** 360

Answer: D



Shortly after the tank was filled to capacity, a leak was discovered. By the time the hole was repaired, the level of the liquid had dropped 2 meters. What portion of the original liquid REMAINED after the leak was repaired?

A. 1/10 **B.** 1/5 **C.** 2/5 **D.** 1/2 **E.** 4/5

Answer: E



Long-Distance Option Plans

Harry estimates that he calls long distance for no more than 20 minutes per month. Using that estimate, from how many option plans can he choose and have a long-distance charge of \$1.00 or less?

- A. none
- B. one
- C. two
- D. three
- E. four

Answer: C

Question No: 38



Long-Distance Option Plans

Last month Wanda had Plan D and used 20 minutes of long distance during the month. This month she has the same plan but called 50 minutes of long distance during the month. How much MORE was her long-distance charge this month than last month?

A. \$0.00 **B.** \$0.50 **C.** \$1.00 **D.** \$1.50 **E.** \$2.00
Answer: A

Question No : 39 CORRECT TEXT

Exhibit:





Exhibit:

For how many minutes of long-distance use per month are the costs of all four plans the same?

Answer: 40minutes

Answer:



Long-Distance Option Plans

Question No: 40



Long-Distance Option Plans

For Plan B, the slope of the line gives the cost per minute of long-distance use (in dollars). What is the cost per minute using Plan B?

A. \$0.01

- **B.** \$0.05
- **C.** \$0.10
- **D.** \$0.15
- **E.** \$0.50

Answer: B

Question No: 41

The list price of a certain bread machine is \$200. A discount store sells this machine for \$130, saving the customer \$70. What is the percent of discount?

A. 35%

B. 54%

C. 65%

D. 70%

E. 130%

Answer: A

Question No: 42

A club wanted to double its membership. It recruited 6 new members, but that was 10 short of the club's goal. How many members were in the club before the new members joined?

A. 6 **B.** 8 **C.** 12 **D.** 16 **E.** 24

Answer: D



What is the measure of angle BCD?

A. 130° **B.** 120° **C.** 70° **D.** 60°

E. 50°

Answer: A

Question No: 44

A computer chip is designed to be 3.2 cm long, but the actual manufactured length can be up to 0.015 cm larger or smaller than the designed length. Which of the following lengths, in centimeters, of manufactured chips would be acceptable?

A. 3.18

B. 3.19

C. 3.24

D. 3.25

E. 3.35

Answer: B

Question No: 45

When a solar flare occurs on the Sun, it can send out a blast wave that travels through space at a speed of 1.875×106 miles per hour. How would this speed, in miles per hour, be written as a decimal number?

A. 18,750,000
B. 1,875,000
C. 187,500
D. 0.000001875
E. 0.0000001875

Answer: B



What is true about the perimeters (shown by the solid lines) and the areas of the two arrangements?

- A. The perimeters are the same, but the areas are different.
- **B.** The perimeters are different, but the areas are the same.
- **C.** The perimeters and areas are both the same.
- **D.** The perimeters and areas are both different.
- E. Not enough information is given.

Answer: C

Question No: 47

City Commuter Airplane Service is considering the purchase of another airplane for its fleet. The cruising speeds of the two choices are shown in the graph below.



Speed Comparison

In miles, how much FARTHER can plane A travel in 3 hours than plane B can travel in the same amount of time?

A. 100

- **B.** 150
- **C.** 300
- **D.** 450
- **E.** 600

Answer: B

Question No: 48

City Commuter Airplane Service is considering the purchase of another airplane for its

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fleet. The cruising speeds of the two choices are shown in the graph below.



In minutes, how much LONGER would it take plane B to travel 300 miles than it would take plane A to travel the same distance?

- **A.** 20
- **B.** 30
- **C.** 40
- **D.** 60
- **E.** 75

Answer: B

Hattie, the manager of Speedy Burgers, wants to know the average amount of time it takes customers to order once they reach the counter. Hattie recorded these ordering times in seconds:45, 52, 64, 87, 56, 21, 34, 49, 55, 29, 36. What was the mean (average) time in seconds it took customers to order?

A. 528 **B.** 64 **C.** 49 **D.** 48 **E.** 43

Answer: D



Debra's job description allocates her time among her tasks as shown in the graph at the left.

If Debra works 40 hours this week, how many of those hours should be spent on customer service?

A. 5

B. 10

C. 15

D. 20

E. 25

Answer: C

Question No : 51

Jerard is shopping for a new stereo. World Market has a stereo on sale for \$109.99, and Jerard has a coupon that will give him \$20 off any purchase over \$100. Yates' Electronics has the same stereo on sale for 25 percent off their regular price of \$129.99. What is the lowest price Jerard can pay for this stereo?

A. \$27.50

B. \$32.50

C. \$82.49

D. \$89.99

E. \$97.49

Answer: D

Question No: 52

John is taking a test that has ten questions. Each question has four answer choices with only one correct answer. Which of the following expressions shows the probability that

John could answer all ten questions correctly by randomly guessing the correct answers?



The surface area of a cube is given by the formula $s = 6x^2$, where s is the surface area of the cube, and x is the length of an edge of the cube.

If a cardboard box is in the shape of a cube, what is the surface area (in square inches) of the cardboard box if its edge is 5 inches in length?

A. 6
B. 30
C. 60
D. 150
E. 900

Answer: D

Question No : 54

Kyle is building a fence to enclose the rectangular garden area beside his house. No fencing will be required along the side of the garden next to the house, as shown in the diagram below.



The style of fencing that Kyle has chosen requires 15 feet of wood for every 3 feet of fencing. How many feet of wood will he need?

A. 21 **B.** 45

C. 105

D. 225

E. 315

Answer: C

Question No: 55

Kyle is building a fence to enclose the rectangular garden area beside his house. No fencing will be required along the side of the garden next to the house, as shown in the diagram below.



Each bag of topsoil that Kyle wants to purchase will cover an area of 2.25 square feet. What is the minimum number of bags he should purchase to cover the garden area?

A. 8 **B.** 9

C. 10

D. 16

E. 20

E. 20

Answer: E

Question No: 56

A 0.45-acre tract of land sells for \$36,000. At this rate, what would 1 acre cost?

A. \$80,000 **B.** \$72,000 **C.** \$60,000 **D.** \$19,800 **E.** \$16,200

Answer: A

Question No: 57

Sweater Discounts		
Store A	1/4 OFF	
Store B	30% OFF	
Store C	1/3 OFF	
Store D	\$5 OFF	
Store E	16% OFF	

Several stores offer sweaters at discounts as shown in the table at the left.

Which one of the stores gives the best discount on a sweater that regularly sells for \$25?

A. A **B.** B **C.** C **D.** D **E.** E

Answer: C

Question No : 58

Lamar is three weeks late in collecting money from his newspaper customers. If he has 25 customers and each owes \$4 per week, what expression equals the total number of dollars due for the 3 weeks?

A. 25(4) (3)
B. 25(3) (3)
C. 25(4)(12)
D. 25(3)(12)
E. Not enough information is given.

Answer: A

Question No: 59

At Grant's Stereo Shop, economy cassette tapes are sold in packages of 10 for \$16, or separately for \$2 each. Jimmy buys 1 package of 10 tapes and 5 separately packaged tapes. Which of the following expressions equals the average price, in dollars, of his cassette tapes?

$$\frac{16 + 2(5)}{15}$$
B)
$$15 \times \frac{2}{15}$$
C)
$$\frac{16}{15} + \frac{2}{15}$$

10 5

D)

E)

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Answer: A

Question No: 60

Kendra is buying a television set that will cost \$299.00, including tax. She can pay cash or put down 10 percent of the cost and make 12 monthly payments of \$28.00 each. How much will Kendra save if she pays cash?

A. \$28.00

B. \$29.90

C. \$37.00

D. \$66.90

E. \$94.40

Answer: D

The PTA's drive to get new members exceeded its goal by 10 percent. If the number of new members totaled 165, how many new members did the PTA have as its original goal?

A. 140 **B.** 145 **C.** 150 **D.** 155

E. 160

Answer: C

Question No: 62

A teacher has 12 pieces of candy for each of his 20 students. However, 5 students do not want any. If all the candy is distributed evenly to the remaining students, how many pieces will each receive?

- **A.** 24 **B.** 20 **C.** 18 **D.** 16
- **E.** 15

Answer: D

The boards on the surface of an outdoor deck are often placed at a 45° angle for

decorative appeal. The hypotenuse of a 45°-45°-90° right triangle is found by multiplying the length of a leg by2. To the nearest tenth of a foot, how long must a board be to cover the diagonal of the square deck shown at the left?

A. 11.9 **B.** 12.6 **C.** 13.2 **D.** 13.8

E. 14.1

Answer: E

Question No: 64

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Jasmine had a piece of wood that was inches long. She cut off one piece that was 12 inches long, and cut the remaining section intotwo pieces of equal length. If 87 3/4inch of wood was wasted making the two cuts, how long, in inches, were each of the two equal pieces?

- A) $32\frac{1}{4}$ B) $37\frac{3}{4}$ C) $43\frac{1}{4}$ D) $43\frac{3}{4}$ E) $75\frac{1}{2}$
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: B





The slope of the function gives the cost per hour for using each Internet service. To the nearest whole dollar, what is the approximate cost per hour for using the Cost Cutter Service?

- **A.** \$1
- **B.** \$3
- **C.** \$5
- **D.** \$6
- **E.** \$8

Answer: B





How much MORE does it cost to use Advanced Access service for 6 hours per month than to use the same service for 2 hours per month?

- **A.** \$ 0
- **B.** \$ 4
- **C.** \$20
- **D.** \$40
- E. Not enough information is given.

Answer: A

A police officer stopped Martin for driving 65 miles per hour, or 10 miles per hour over the posted speed limit. The fine for speeding is \$50.00 plus \$10.00 for each mile per hour over the speed limit, up to 5, and then \$15.00 for each mile per hour over that. Which expression below shows how much Martin was fined?

A. \$50.00 + \$10.00
B. \$50.00 + \$10.00E.
C. \$50.00 + \$15.00E.
D. \$50.00 + \$10.00(10)
E. \$50.00 + \$10.00E.+ \$15.00E.

Answer: E

Question No: 68

If x = 5 and y = 2x + 2, what is the value of y?



Answer: D

Question No: 69



After two weeks, what was the approximate height (in centimeters) of the small plants that were not fertilized?

- **A.** 40
- **B.** 50
- **C.** 60
- **D.** 70
- **E.** 80

Answer: B

Question No: 70



Plant Growth

After how many weeks of growth was the height of the seeds in fertilizer the same as the height of the small plants not fertilized?

A. 1

B. 2

C. 3

D. 4

E. 5

Answer: C

Shelly paid a total of \$80 for seven tickets for a hockey game. Five of the tickets were in the cheapest price range, and two were in the most expensive range. If the cheaper tickets were \$10 each, which of the following equations could be used to determine x, the price (in dollars) of the expensive ones?

A. 7(10) + 2x = 80
B. 2(10) + 7x = 80
C. 5(10) + 2x = 80
D. 2(10) + 5x = 80
E. 5(10) + 7x = 80

Answer: C

Question No : 72

Size	Cost Per Basket
Small	\$4.50
Medium	\$8.00
Large	\$15.00

A basket weaver charges the following amounts for baskets:

If 7 small baskets, 4 medium baskets, and 3 large baskets were sold, which of the following expressions would equal the total amount of basket sales?

A. 14(\$27.50)
B. \$4.50 + \$8.00 + \$15.00
C. 4(\$4.50) + 3(\$8.00) + 7(\$15.00)
D. 3(\$4.50) + 7(\$8.00) + 4(\$15.00)
E. 7(\$4.50) + 4(\$8.00) + 3(\$15.00)

Answer: E

Question No: 73

A soccer team played 30 games. The team won 40 percent of the first 10 games and 70 percent of the remaining games. Which expression correctly shows how many games they won in all?

A. 0.4(30) **B.** 0.7(20) **C.** 0.4(20) + 0.7(10) **D.** 0.4(10) + 0.7(20) **E.** 0.4(10) + 0.7(30)

Answer: D

Question No : 74

Angie bought a snack pack of candy at the store. The pack has 24 candies in all, with 6 blue, 5 red, 7 orange, 2 brown, and 4 green pieces. If she reaches into the bag without looking, what is the probability that she would choose a brown piece of candy?

A. 1/12 **B.** 1/8 **C.** 1/6 **D.** 2/25 **E.** 2/7

Answer: A



Population Trends of Small town

The population trend of Smalltown for the years 1990 through 1996 is shown in the graph at the left.

If the trend continued, what was the population of Smalltown in 1997?

- **A.** 2250
- **B.** 2000
- **C.** 1750
- **D.** 1500
- **E.** 1250

Answer: D

Question No: 76

Robert's car averages 32 miles to the gallon in highway driving. Approximately how many gallons of gas should he expect to use for a trip of 220 miles?

A. 3

B. 5 **C.** 7 **D.** 9 **E.** 10

Answer: C

Question No: 77

Fran works 6 hours each day and Karen works 8 hours each day. Fran makes \$2 more per hour than Karen. How many days must Karen work to earn \$240?

- **A.** 15
- **B.** 24
- **C.** 30
- **D.** 40
- E. Not enough information is given.

Answer: E

Question No: 78

Elena screens all candidates for a position in her company. The candidates have exactly1 3/4 hours to complete the screening exercise. If the exercise begins at 140 p.m., at what time must Elena tell the candidates their time has ended?

A. 25 p.m. **B.** 55 p.m. **C.** 15 p.m. **D.** 20 p.m. **E.** 25 p.m.

Answer: E

Question No: 79

Dan is 2 years younger than Amy, and the sum of their ages is less than 20. Which of the following is a correct statement about Amy's and Dan's ages? (Let A = Amy's age.)

A. A + A - 2 < 20
B. A + A + 2 < 20
C. A + 2A < 20
D. A + 2A + A < 20
E. A + A - 3 < 20

Answer: A

Question No: 80

A painter uses the formula C = 20h + 20c to determine how much he should charge a customer in dollars if a job takes h hours and c cans of paint. How much should the painter charge if it took 15 hours and 3 cans of paint to paint a house?

A. \$ 160 **B.** \$ 220 **C.** \$ 360 **D.** \$ 400 **E.** \$1800

Answer: C

Office Supplies			
ltem	Old Price	New Price	
 A. 1 box of pens B. 1 box of pencils C. 1 folder D. 1 box of staples E. 1 package of notes 	\$10.00 \$1.90 \$0.30 \$2.60 \$9.90	\$11.00 \$2.09 \$0.33 \$3.26 \$10.89	

All the office supplies listed in the chart at the left increased in price.

Which item increased by more than 10 percent?

A. A

B. B

C. C

D. D

E. E

Answer: D

Question No: 82

Women are 3 times as likely as men to have rheumatoid arthritis. A survey conducted in a city of 4,000,000 people revealed about 40,000 cases of rheumatoid arthritis. Approximately how many of these 40,000 could be expected to be WOMEN?

A. 39,000

B. 30,000

C. 20,000

D. 10,000

E. 1,000

Answer: B

Question No: 83



In the diagram at the left, figure SRQP is a non-square rectangle.

Which of the following statements is/are true?

A. PQ = SR and PS = QR.
B. Angle SPQ = 90°.
C. angle 1 = angle 2.
D. A and C only
E. A and B only
F. C only
G. B only
H. A only

Answer: B

A seamstress needs 3 yards of material to make a skirt and 2 yards to make a blouse. The amount of material required to make a belt for the skirt is $\frac{1}{2}$ yard.

The seamstress made 2 complete outfits that include a blouse, skirt, and belt. How many yards of material were needed to make these outfits?

A. 5
B. 5 1/2
C. 8
D. 10
E. 11

Answer: E

Question No: 85

A seamstress needs 3 yards of material to make a skirt and 2 yards to make a blouse. The amount of material required to make a belt for the skirt is $\frac{1}{2}$ yard.

If a seamstress were to make 8 blouses and 10 skirts without belts, which expression below equals the total amount of material, in yards, needed to complete the skirts and blouses?

A)

8(2) + 10(3)

B) 8(3) + 10(2) C) 8 $\left(2\frac{1}{2}\right)$ + 10(3) D) 8(3) + 10 $\left(2\frac{1}{2}\right)$ E) 18 $\left(5\frac{1}{2}\right)$

- **A.** Option A**B.** Option B
- C. Option C
- **D.** Option D
- E. Option E

Answer: A



Which of the following proportions shows the relationship between the height of the object (AB) and the height of its image (DE) in the diagram at the left?

A)		
$\frac{AB}{DE} = \frac{A}{C}$	AC CE	
B)		
$\frac{AB}{DE} = \frac{B}{A}$		
C)		
$\frac{AB}{DE} = \frac{B}{C}$	BC D	
D)		
$\frac{AB}{DE} = \frac{A}{C}$		
E)		
$\frac{AB}{DE} = \frac{C}{C}$	DE	
A. Option A		

- **B.** Option B
- **C.** Option C
- **D.** Option D
- E. Option E

Answer: D

Question No: 87

It takes 10 days to mow a 140-acre park using a tractor that is available only 4 hours per

day.

If the same amount of acreage is mowed each day, how many acres per hour must be mowed?

A. 14.0 **B.** 7.0 **C.** 5.5 **D.** 3.5 **E.** 2.7

Answer: D

Question No: 88

Five items were purchased for a total of \$52.50. The three least expensive items cost \$3.40, \$7.90, and \$9.80, respectively.

What was the cost of the most expensive of the 5 items?

- **A.** \$15.70
- **B.** \$42.70
- **C.** \$44.60
- **D.** \$49.10
- E. Not enough information is given.

Answer: E

Question No: 89

In 0.35 hours, 4,200 gallons of water flow over a small dam. At this rate, how many gallons of water will flow over the dam in one hour?
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A. 12,000 **B.** 8,400 **C.** 7,000 **D.** 2,730 **E.** 1,470

Answer: A

Question No: 90

To raise funds for a charity drive, Danielle convinced 40 businesses to each pledge to donate \$10 per month for 6 months.

Which expression equals the total number of dollars pledged for the charity drive?

A. 40(10)(6)
B. 40(6)(6)
C. 40(10)(60)
D. 40(6)(60)
E. Not enough information is given.

Answer: A

Question No: 91



What is the length, in inches, of the diagonal brace?

A. 42

B. 48

C. 60

D. 72

E. 84

Answer: C

Question No: 92

Potatoes can be purchased in 10-kilogram bags for \$14 or loosely for \$2 per kilogram. Harry bought one 10-kilogram bag of potatoes and 3 kilograms of loose potatoes.

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Which of the following expressions equals the average price per kilogram, in dollars, for the potatoes Harry bought?

A)
$\frac{14+2(3)}{13}$
B)
$13 \times \frac{2}{3}$
C)
$\frac{14}{10} \times \frac{2}{3}$
D)
$14 - \frac{2}{2}$
E)
$\frac{14+2}{13}$
A. Option A B. Option B

- C. Option C
- D. Option D
- E. Option E

Answer: A

Question No: 93

The number of games in a shipment must be a multiple of 25 and 40. What is the FEWEST number of games that could be in the shipment?

- **A.** 800
- **B.** 200
- **C.** 120
- **D.** 75
- **E.** 50

Answer: B

Question No: 94

If a, b, and c are three different numbers, and a minus b equals c, which of the following statements must be true?

A. b = ac
B. a = bc
C. b = a - c
D. a = b - c
E. a = c - b

Answer: C

Question No: 95

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The slopes of the lines give the average growth rates of the plants, in centimeters per week, using the two fertilizers.

What is the average growth rate, in centimeters per week, using fertilizer A?

A. 85 **B.** 45

- **C.** 15
- **D.** 10
- **E.** 5

Answer: D

Question No: 96 CORRECT TEXT



For a plant to grow to a height of 40 centimeters, how many MORE weeks did it take using fertilizer B than using fertilizer A?

Answer: 4weeks

Answer:

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