



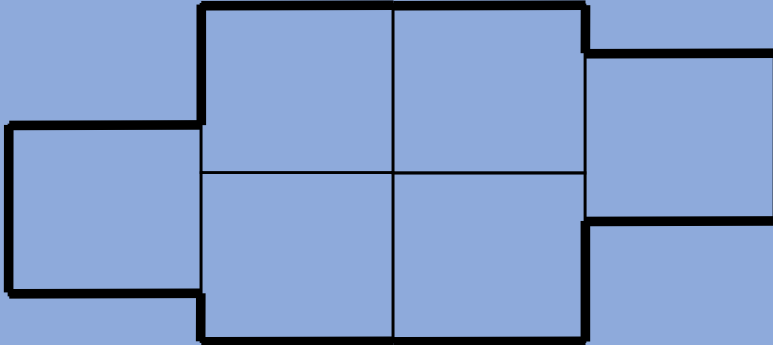
WIZZTUS CAREERS



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MBA APPLICATION GUARANTEE*

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Q6 2019: Q1

In the figure, the 6 small squares are identical, each with sides of length 1. What is the outer perimeter (shown in bold) of the entire figure?

- A) 8
- B) 12
- C) 16
- D) 20
- E) 24

OG 2019: Q2

Performance Time	Ticket Price	Number of Tickets sold
Thursday Night	\$40	200
Friday Night	\$50	240
Saturday Afternoon	\$40	220
Saturday Night	\$50	300

The table shows a summary of the ticket sales from four performances of a certain play. What is the difference between the maximum and the minimum ticket-sale revenue from a single performance?

- A) \$4,000
- B) \$5,100
- C) \$6,200
- D) \$7,000
- E) \$9,600

Ø6 2019: Q3

During a trip that they took together, Carmen, Juan, Maria, and Rafael drove an average (arithmetic mean) of 80 miles each. Carmen drove 72 miles, Juan drive 78 miles, and Maria drove 83 miles. How many miles did Rafael drive?

- A) 80
- B) 82
- C) 85
- D) 87
- E) 89

OG 2019: Q4

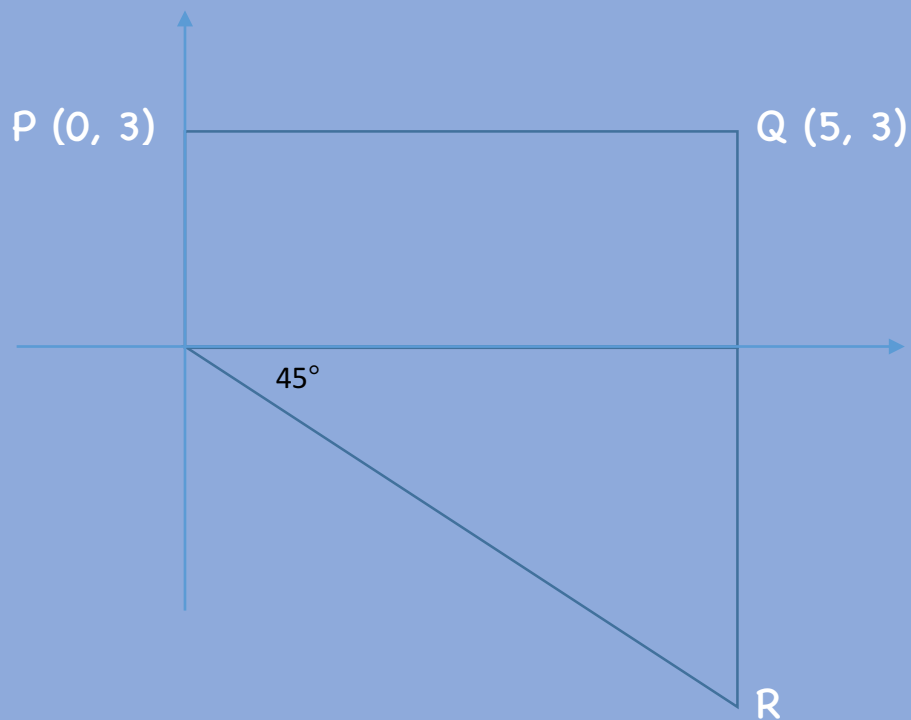
Each week, a clothing salesperson receives a commission equal to 15 percent of the first \$500 in sales and 20 percent of all additional sales that week. What commission would the salesperson receive on total sales for the week of \$1,300?

- A) \$195
- B) \$227
- C) \$235
- D) \$260
- E) \$335

Q6 2019: Q5

A certain restaurant that regularly advertises through the mail has 1,040 cover letters and 3,000 coupons in stock. In its next mailing, each envelope will contain 1 cover letter and 2 coupons. If all of the cover letters in stock are used, how many coupons will remain in stock after this mailing?

- A) 920
- B) 1,040
- C) 1,500
- D) 1,960
- E) 2,080

OG 2019: Q6

In the figure above, what are the coordinates of point R?

- A) (3, -5)
- B) (3, -3)
- C) (5, 5)
- D) (5, -3)
- E) (5, -5)

Q6 2019: Q8

$$\left(\frac{1}{2} - \frac{1}{3}\right) + \left(\frac{1}{3} - \frac{1}{4}\right) + \left(\frac{1}{4} - \frac{1}{5}\right) + \left(\frac{1}{5} - \frac{1}{6}\right) =$$

A) $-\frac{1}{6}$

B) 0

C) $\frac{1}{3}$

D) $\frac{1}{2}$

E) $\frac{2}{3}$

Q6 2019: Q9

While a family was away on vacation, they paid a neighborhood boy \$11 per week to mow their lawn and \$4 per day to feed and walk their dog. If the family was away for exactly 3 weeks, how much did they pay the boy for his services?

- A) \$45
- B) \$54
- C) \$71
- D) \$95
- E) \$117

Q6 2019: Q10

Last year \$48,000 of a certain store's profit was shared by its 2 owners and their 10 employees. Each of the 2 owners received 3 times as much as each of their 10 employees. How much did each owner receive from the \$48,000?

- A) \$12,000
- B) \$9,000
- C) \$6,000
- D) \$4,000
- E) \$3,000

OG 2019: Q14

In the xy -coordinate plane, if the point $(0, 2)$ lies on the graph of the line $2x + ky = 4$, what is the value of the constant k ?

- A) 2
- B) 1
- C) 0
- D) -1
- E) -2

OG 2019: Q16

Over the past 7 weeks, the Smith family had weekly grocery bills of \$74, \$69, \$64, \$79, \$64, \$84, and \$77. What was the Smiths' average (arithmetic mean) weekly grocery bill over the 7-week period?

- A) \$64
- B) \$70
- C) \$73
- D) \$74
- E) \$85

Ø6 2019: Q22

From 2000 to 2003, the number of employees at a certain company increased by a factor of $1/4$. From 2003 to 2006, the number of employees at this company decreased by a factor of $1/3$. If there were 100 employees at the company in 2006, how many employees were there at the company in 2000?

- A) 200
- B) 120
- C) 100
- D) 75
- E) 60

Ø6 2019: Q23

Which of the following statements must be true about the average (arithmetic mean) and the median of the 5 consecutive integers?

- I. The average is one of the integers.
- II. The median is one of the integers.
- III. The median equals the average.

- A) I only
- B) II only
- C) III only
- D) I and II only
- E) I, II, and III

OG 2019: Q26

A retailer purchased eggs at \$2.80 per dozen and sold the eggs at 3 eggs for \$0.90. What was the retailer's gross profit from purchasing and selling 5 dozen eggs? (1 dozen eggs = 12 eggs)

- A) \$0.90
- B) \$2.40
- C) \$4.00
- D) \$11.30
- E) \$12.00

OG 2019: Q27

In a set of 24 cards, each card is numbered with a different positive integer from 1 to 24. One card will be drawn at random from the set. What is the probability that the card drawn will have either a number that is divisible by both 2 and 3 or a number that is divisible by 7?

- A) $\frac{3}{24}$
- B) $\frac{4}{24}$
- C) $\frac{7}{24}$
- D) $\frac{8}{24}$
- E) $\frac{17}{24}$

Ø6 2019: Q28

If the circumference of a circle inscribed in a square is 25π , what is the perimeter of the square?

- A) \$0.90
- B) \$2.40
- C) \$4.00
- D) \$11.30
- E) \$12.00

Ø6 2019: Ø30

Set X consists of eight consecutive integers. Set Y consists of all the integers that result from adding 4 to each of the integers in set X and all the integers that result from subtracting 4 from each of the integers in set X. How many more integers are in there in the set Y than in set X?

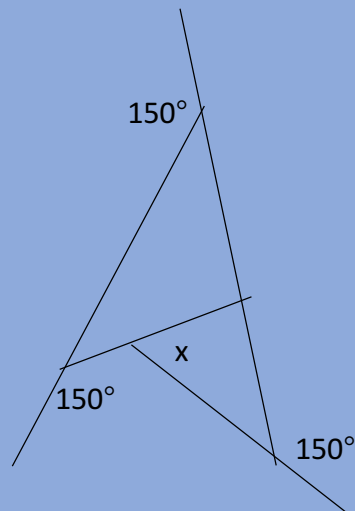
- A) 0
- B) 4
- C) 8
- D) 12
- E) 16

OG 2019: Q31

Of the following, which is the closest to $\frac{60.2}{1.03 * 4.86}$?

- A) 10
- B) 12
- C) 13
- D) 14
- E) 15

Ø6 2019: Q30



In the figure shown, what is the value of x ?

- A) 60
- B) 80
- C) 85
- D) 90
- E) 95

OG 2019: Q30

A certain store will order 25 crates of apples. The apples will be of three different varieties – McIntosh, Rome, and Winesap – and each crate will contain apples of only one variety. If the store is to order more crates of Winesap than crates of McIntosh and more crates of Winesap than crates of Rome, what is the least possible number of crates of Winesap that the store will order?

- A) 7
- B) 8
- C) 9
- D) 10
- E) 11

OG 2019: Q41

A bicycle store purchased two bicycles, one for \$250 and the other for \$375, and sold both bicycles at a total gross profit of \$250. If the store sold one of the bicycles for \$450, which of the following could be the store's gross profit from the sale of the other bicycle?

- A) \$75
- B) \$100
- C) \$125
- D) \$150
- E) \$175

OG 2019: Q46

If x is a positive integer and $4^x - 3 = y$, which of the following CANNOT be a value of y ?

- A) 1
- B) 7
- C) 13
- D) 61
- E) 253

OG 2019: Q50

The price of gasoline at a service station increased from \$1.65 per gallon last week to \$1.82 per gallon this week. Sally paid \$26.40 for gasoline last week at the station. How much more will Sally pay this week at the station for the same amount of gasoline?

- A) \$1.70
- B) \$2.55
- C) \$2.64
- D) \$2.72
- E) \$2.90

OG 2019: Q51

Monthly Charge for Low-Use Telephone Contract Offered by Company X

Monthly rate (up to 75 message units)	20% less than standard rate of \$10.00
Per unit in excess of 75 message units	\$0.065

Based on the rates above, how much would company X charge a customer with a low-use contract for using 95 message units in a month?

- A) \$9.30
- B) \$11.30
- C) \$12.88
- D) \$14.88
- E) \$16.18

ØG 2019: Q55

If $S = 1 + \frac{1}{2^2} + \frac{1}{3^2} + \frac{1}{4^2} + \frac{1}{5^2} + \frac{1}{6^2} + \frac{1}{7^2} + \frac{1}{8^2} + \frac{1}{9^2} + \frac{1}{10^2}$, which of the following is true?

- A) $S > 3$
- B) $S = 3$
- C) $2 < S < 3$
- D) $S = 2$
- E) $S < 2$

Ø6 2019: Q58

Which of the following is closest to $\sqrt{\frac{4.2(1,590)}{15.7}}$?

- A) \$1.70
- B) \$2.55
- C) \$2.64
- D) \$2.72
- E) \$2.90

OG 2019: Q62

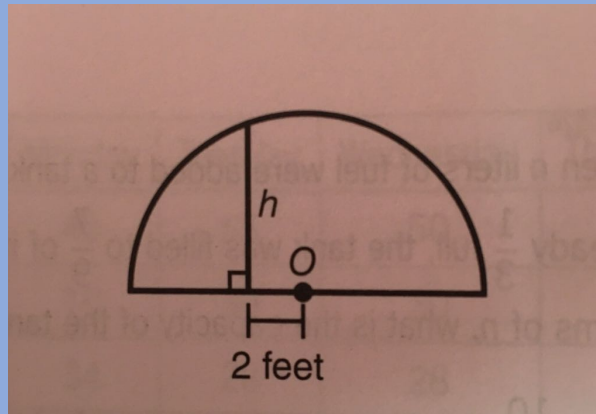
The value of $\frac{\frac{7}{8} + \frac{1}{9}}{\frac{1}{2}}$ is closest to which of the following?

- A) \$1.70
- B) \$2.55
- C) \$2.64
- D) \$2.72
- E) \$2.90

Q6 2019: Q69

Company Q plans to make a new product next year and sell each unit of this new product at a selling price of \$2. The variable costs per unit in each production run are estimated to be 40% of the selling price, and the fixed costs for each production run are estimated to be \$5,040. Based on these estimated costs, how many units of the new product will Company Q need to make and sell in order for their revenue to equal their total costs for each production run?

- A) 4,200
- B) 3,150
- C) 2,520
- D) 2,100
- E) 1,800

Q6 2019: Q77

The figure above represents a semicircular archway over a flat street. The semicircle has a center at O and a radius of 6 feet. What is the height, h , in feet, of the archway 2 feet from its center?

- A) $\sqrt{2}$
- B) 2
- C) 3
- D) $4\sqrt{2}$
- E) 6

OG 2019: Q79

In a certain fraction, the denominator is 16 greater than the numerator. If the fraction is equivalent to 80 percent, what is the denominator of the fraction?

- A) 32
- B) 64
- C) 72
- D) 80
- E) 120

OG 2019: Q80

Greg assembles units of a certain product at a factory. Each day he is paid \$2.00 per unit for the first 40 units that he assembles and \$2.50 for each additional unit that he assembles that day. If Greg assembled at least 30 units on each of the two days and was paid a total of \$180.00 for assembling units on the two days, what is the greatest possible number of units that he could have assembled on one of the two days?

- A) 48
- B) 52
- C) 56
- D) 60
- E) 64

Q6 2019: Q134

10, 4, 26, 16

What is the median of the numbers shown?

- A) 10
- B) 13
- C) 14
- D) 15
- E) 16

OG 2019: Q137

Ron is 4 inches taller than Amy, and Barbara is 1 inch taller than Ron. If Barbara's height is 65 inches, what is the median height, in inches, of these three people?

- A) 60
- B) 61
- C) 62
- D) 63
- E) 64