
Question: 1

What is the ratio of the percent of sales from sporting goods to the percent of sales from stationery?

- A. 3
- B. 7
- C. 15
- D. 4
- E. 12

Answer: A

Question: 2

An octagonal lamp has 8 square glass sides. The total area of the glass used for the lamp is given by the formula $g = 8x^2$, 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

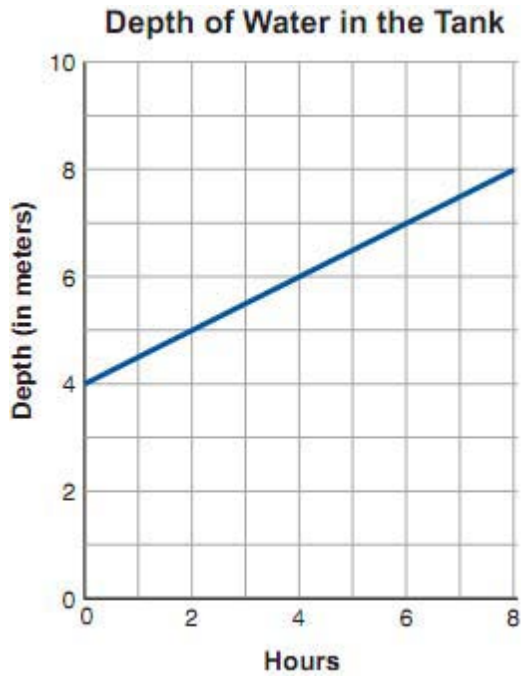
Question: 3

Adora's car averages 28 miles per gallon of gas. Approximately how many gallons of gas should she expect to use for a trip of 190 miles?

- A. 3
- B. 5
- C. 7
- D. 9
- E. 10

Answer: C

Question: 4



Which of the following functions represents the depth of water (d) in the tank in terms of the number of hours (t) after the refilling began?

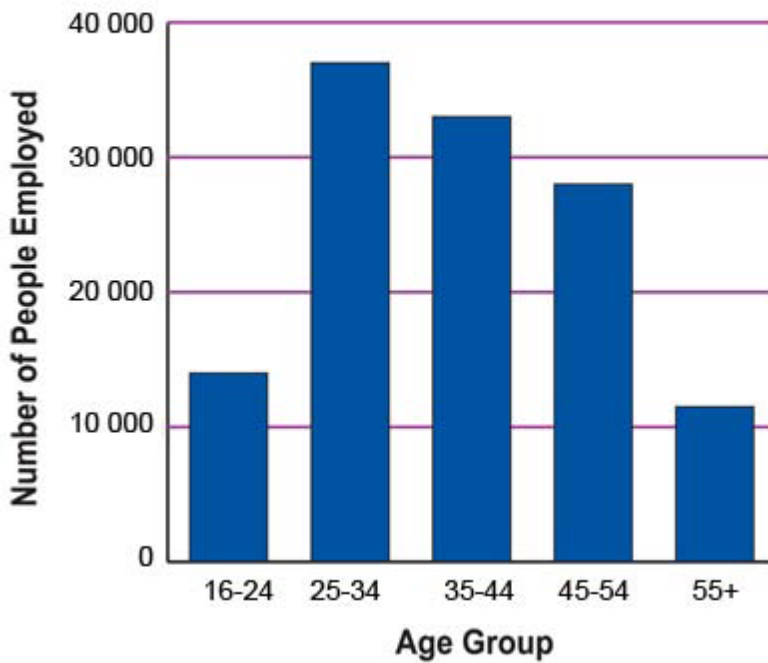
- A. $d = 2t + 4$
- B. $d = 2t$
- C. $d = 0.50t + 2$
- D. $d = 0.50t + 4$
- E. $d = 0.50t$

Answer: D

Question: 5

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



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

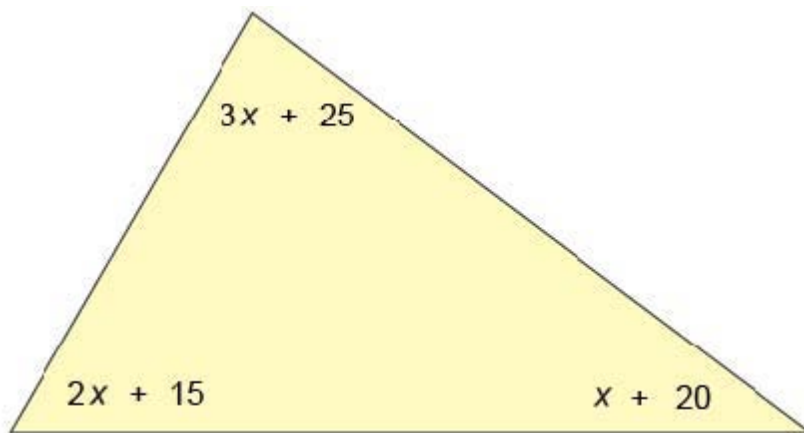
Question: 6

Lamar and Angela each bought sofas that cost \$399.00 each, including tax. Angela paid cash, but Lamar paid 10% of the cost and made 12 monthly payments of \$36.00 each. How much MORE did Lamar pay than Angela?

- A. \$ 39.90
- B. \$ 33.00
- C. \$ 72.90
- D. \$ 432.00
- E. \$ 471.90

Answer: C

Question: 7



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: 8

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. $3(\$4.50) + 7(\$8.00) + 4(\$15.00)$

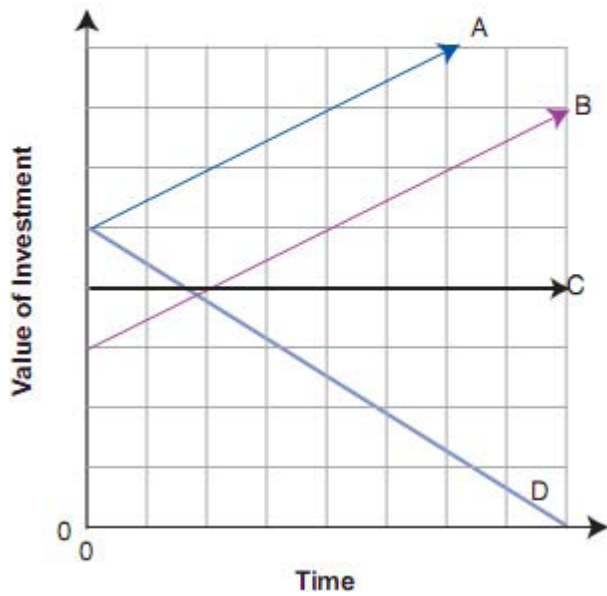
E. $7(\$4.50) + 4(\$8.00) + 3(\$15.00)$

Answer: E

Question: 9

The values of several investments over time are shown in the graph below.

Changing Value of Investments over Time

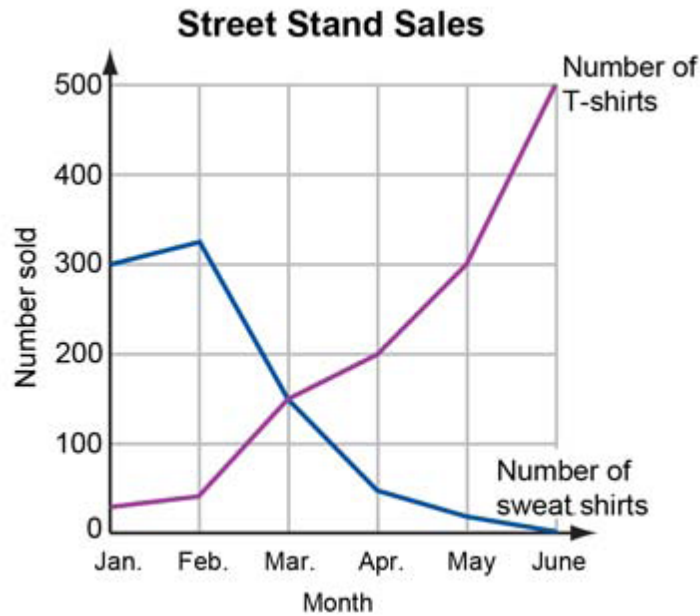


For which two investments was the same amount of money initially invested?

- A. B and C
- B. B and D
- C. A and B
- D. A and C
- E. A and D

Answer: E

Question: 10



The numbers of sweat shirts and T-shirts sold at a street stand during the first six months of the year are shown in the graph at the left.

During which month were the numbers of sweat shirts and T-shirts sold the same?

- A. February
- B. March
- C. April
- D. May
- E. June

Answer: B

Question: 11

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

Question: 12

A shipment of 84 cell phones was sent in two types of boxes. Some boxes contained 6 phones and others contained 8 phones. An equal number of each type of box was used. How many of each type of box was used?

- A. 6
- B. 12
- C. 36
- D. 42
- E. 48

Answer: A

Question: 13

If $x = 7$ and $y = 3x + 2$, what is the value of y ?

- A. $3/5$
- B. $5/3$
- C. 12
- D. 20
- E. 23

Answer: E

Question: 14

Santos runs a restaurant in his neighborhood. Of his employees, $4/5$ are willing to work nights. Of those willing to work nights, $1/2$ are willing to work on weekends. If Santos has 40 employees, how many are willing to work on weekend nights?

- A. 5
- B. 16
- C. 20
- D. 24
- E. 32

Answer: B

Question: 15

If a helicopter flies at an average speed of 80 kilometers per hour, approximately how long will it take to travel 650 kilometers?

- A. 5 to 6 hours
- B. 6 to 7 hours
- C. 7 to 8 hours
- D. 8 to 9 hours
- E. 9 to 10 hours

Answer: D

Question: 16

Avery charges a fixed amount for a house call plus an hourly fee of \$12.50 for repairing televisions. His bill for repairing a television in a customer's home was \$62.00.

If Avery worked 4 hours, what was the fixed amount he charged for the house call?

- A. \$ 6.00
- B. \$12.00
- C. \$16.50
- D. \$49.50
- E. \$50.00

Answer: B