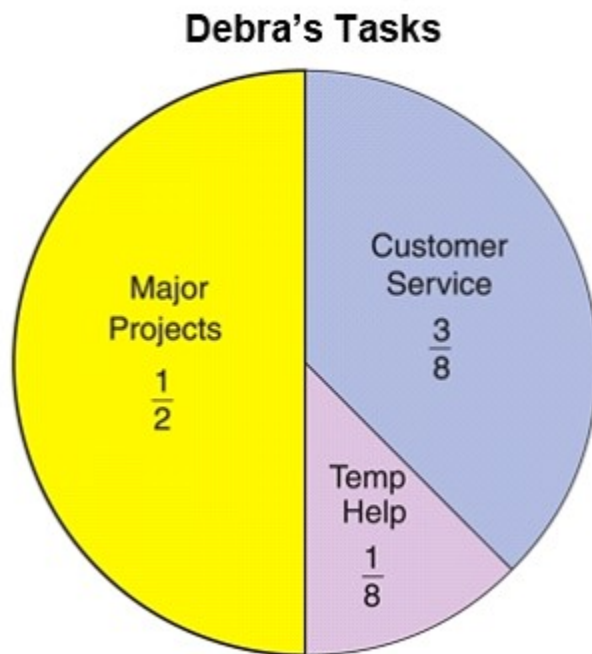


**QUESTION 50**

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

**Correct Answer: C**

**QUESTION 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

**Correct Answer: D**

**QUESTION 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?

- A.  $\left(\frac{1}{10}\right)^{10}$
- B.  $\left(\frac{1}{4}\right)^{10}$
- C.  $\left(\frac{1}{3}\right)^{10}$
- D.  $\left(\frac{1}{2}\right)^{10}$
- E.  $\left(\frac{3}{4}\right)^{10}$

**Correct Answer:** B

**QUESTION 53**

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

**Correct Answer:** D

**QUESTION 54**

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?

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.



- A. 21
- B. 45
- C. 105
- D. 225
- E. 315

**Correct Answer: C**

**QUESTION 55**

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?

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.



- A. 8
- B. 9
- C. 10
- D. 16
- E. 20

**Correct Answer: E**

**QUESTION 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

**Correct Answer:** A

**QUESTION 57**

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

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

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

**Correct Answer:** C

**QUESTION 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.

**Correct Answer:** A

**QUESTION 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?

- A.  $\frac{16 + 2(5)}{15}$
- B.  $15 \times \frac{2}{15}$
- C.  $\frac{16}{10} + \frac{2}{5}$
- D.  $16 - \frac{2}{2}$
- E.  $\frac{16 + 2}{15}$

**Correct Answer:** A

**QUESTION 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

**Correct Answer:** D

**QUESTION 61**

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

**Correct Answer:** C

**QUESTION 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