

CBEST-SECTION-1^{Q&As}

California Basic Educational Skills Test - Math

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QUESTION 1

Which of the following brands is the least expensive?

Brand	W	X	Y	Z
Price	0.21	0.48	0.56	0.96
Weight in ounces	6	15	20	32

- A. W
- B. X
- C. Y
- D. Z
- E. They are equal in price.

Correct Answer: C

QUESTION 2

What is the result of multiplying 11 by 0.032?

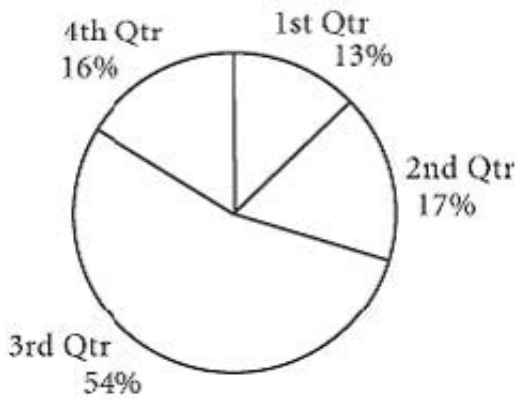
- A. 0.032
- B. 0.0352
- C. 0.32
- D. 0.352
- E. 3.20

Correct Answer: D

QUESTION 3

Use the pie chart to answer question The chart shows quarterly sales for Cool-Airs air-conditioning units. Which of the following combinations contributed 70% to the total?

Sales For 1997



- A. 1st and 2nd quarters
- B. 1st and 3rd quarters
- C. 2nd and 3rd quarters
- D. 2nd and 4th quarters
- E. 3rd and 4th quarters

Correct Answer: E

QUESTION 4

Mr. Richard Tupper is purchasing gifts for his family. He stops to consider what else he has to buy. A quick mental inventory of his shopping bag so far reveals the following: 1 cashmere sweater valued at \$260 3 diamond bracelets, each valued at \$365 1 computer game valued at \$78 1 cameo brooch valued at \$130 Later, having coffee in the Food Court, he suddenly remembers that he has purchased only 2 diamond bracelets, not 3, and that the cashmere sweater was on sale for \$245. What is the total value of the gifts Mr. Tupper has purchased so far?

- A. \$833
- B. \$975
- C. \$1,183
- D. \$1,198
- E. \$1,563

Correct Answer: C

QUESTION 5

The population of Smithtown increases at a rate of 3% annually. If the population is currently 2,500, what will the population be at the same time next year?

- A. 2,530
- B. 2,560
- C. 2,575
- D. 2,800
- E. 3,000

Correct Answer: C

QUESTION 6

Water is coming into a tank three times as fast as it is going out. After one hour, the tank contains 11,400 gallons of water. How fast is the water coming in?

- A. 2,850 gallons/hour
- B. 3,800 gallons/hour
- C. 5,700 gallons/hour
- D. 11,400 gallons/hour
- E. 17,100 gallons/hour

Correct Answer: E

QUESTION 7

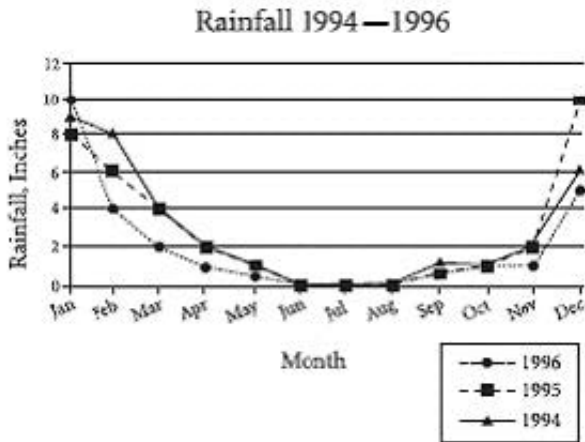
What is the volume of a pyramid that has a rectangular base 5 feet by 3 feet and a height of 8 feet? ($V = \frac{1}{3} lwh$)

- A. 16 feet
- B. 30 feet
- C. 40 feet
- D. 80 feet
- E. 120 feet

Correct Answer: C

QUESTION 8

What was the average (mean) rainfall in February for the three years?



- A. 4 inches
- B. 5 inches
- C. 6 inches
- D. 7 inches
- E. 8 inches

Correct Answer: C

QUESTION 9

Solve for x in the following equation: $\frac{1}{3}x + 3 = 8$.

- A. 33
- B. 15
- C. 11
- D. 3
- E. $\frac{11}{3}$

Correct Answer: B

QUESTION 10

A certain congressional district has about 490,000 people living in it. The largest city in the area has 98,000 citizens. Which most accurately portrays the portion of the population made up by the city in the district?

A. $\frac{1}{5}$

B. $\frac{1}{4}$

C. $\frac{2}{9}$

D. $\frac{3}{4}$

E. $\frac{4}{5}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

QUESTION 11

Which of these angle measures form a right triangle?

A. 45 degrees, 50 degrees, 85 degrees

B. 40 degrees, 40 degrees, 100 degrees

C. 20 degrees, 30 degrees, 130 degrees

D. 40 degrees, 40 degrees, 40 degrees

E. 40 degrees, 50 degrees, 90 degrees

Correct Answer: E

QUESTION 12

What is $\frac{2}{3}$ divided by $\frac{5}{12}$?

A. $1\frac{3}{5}$

B. $1\frac{5}{18}$

C. $1\frac{7}{36}$

D. $1\frac{5}{6}$

E. $1\frac{2}{3}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

QUESTION 13

The radius of a circle is 13. What is the approximate area of the circle?

A. 81.64

B. 530.66

C. 1,666.27

D. 169

E. 175.66

Correct Answer: D

QUESTION 14

A certain university has 36,042 total students. Of these students, 16,534 are male. Approximately how many more women attend the university than men?

- A. 1,500
- B. 2,000
- C. 3,000
- D. 4,000
- E. 4,500

Correct Answer: C

QUESTION 15

On Monday, a kindergarten class uses 2 pounds of modeling clay the first hour, $4\frac{5}{8}$ pounds of modeling clay the second hour, and pound of modeling clay the third hour. How many pounds of clay does the class use during the three hours on Monday?

A. $6\frac{3}{8}$

B. $6\frac{7}{8}$

C. $7\frac{1}{4}$

D. $7\frac{3}{8}$

E. $7\frac{3}{4}$

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

Correct Answer: D

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