



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

The condition known as Down syndrome occurs in about 1 in 1,500 children when the mothers are in their twenties. About what percent of all children born to mothers in their twenties are likely to have Down syndrome?

- A. 0.0067%
- B. 0.67%
- C. 6.7%
- D. 0.067%
- E. 0.00067%

Correct Answer: D

QUESTION 3

Fifty-four students are to be separated into six groups of equal size. How many students are in each group?

- A. 8
- B. 9
- C. 10



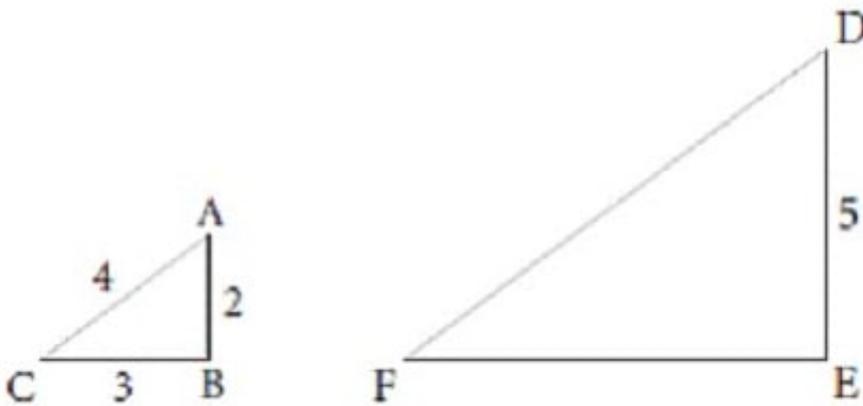
D. 11

E. 12

Correct Answer: B

QUESTION 4

Use the diagram to answer



If the two triangles in the diagram are similar, with angle A equal to angle D, what is the perimeter of triangle DEF?

A. 12

B. 21

C. 22.5

D. 24.75

E. 25.0

Correct Answer: C

QUESTION 5

Rosa finds the average of her three most recent golf scores by using the following expression, where a, b, and c are the three scores:

$$\frac{a+b+c}{3} \times 100$$

Which of the following would also determine the average of her scores?



A. $(\frac{a}{3} + \frac{b}{3} + \frac{c}{3}) \times 100$

B. $\frac{a+b+c}{3}$

C. $(a+b+c) \times \frac{3}{100}$

D. $\frac{a \times b \times c}{3+100}$

E. $\frac{a+b+c}{3+100}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

QUESTION 6

Thirty percent of the high school is involved in athletics. If 15% of the athletes play football, what percentage of the whole school plays football?

A. 4.5%

B. 9.0%

C. 15%

D. 30%

E. 45%

Correct Answer: A

QUESTION 7

Here is a list of the ingredients needed to make 16 brownies.



Deluxe Brownies $\frac{2}{3}$ cup butter 5 squares (1 ounce each) unsweetened chocolate 1 cups sugar 2 teaspoons vanilla 2 eggs 1 cup flour What is the greatest number of brownies that can be made if the baker has only 1 cup of butter?

- A. 12
- B. 16
- C. 24
- D. 28
- E. 32

Correct Answer: C

QUESTION 8

Mr. James Rossen is just beginning a computer consulting firm and has purchased the following equipment:

Mr. Rossen is reviewing his finances. What should he write as the total value of the equipment he has purchased so far?

- A. \$3025
- B. \$5400
- C. \$5525
- D. \$6525

Correct Answer: C

QUESTION 9

Three high schools can serve a town of 105,000 people. How many people could be served by 4 high schools?

- A. 130,000
- B. 135,000
- C. 140,000
- D. 145,000
- E. 150,000

Correct Answer: C

QUESTION 10

A recipe calls for $1\frac{1}{4}$ cups of flour. If Larry wants to make $2\frac{1}{2}$ times the recipe, how much flour does he need?



A. $2\frac{3}{4}$

B. $3\frac{1}{8}$

C. $3\frac{1}{4}$

D. $3\frac{5}{8}$

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

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: B

QUESTION 11

An insurance policy pays 80% of the first \$20,000 of a certain patient's medical expenses, 60% of the next \$40,000, and 40% of the \$40,000 after that. If the patient's total medical bill is \$92,000, how much will the policy pay?

A. \$36,800

B. \$49,600

C. \$52,800

D. \$73,600

E. \$80,000

Correct Answer: C

**QUESTION 12**

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 13

A small town emergency room admits a patient on August 3 at 10:42 P.M. and another patient at 1:19 A.M. on August 4. How much time has elapsed between admissions?

- A. 1 hour 19 minutes
- B. 1 hour 37 minutes
- C. 2 hours 23 minutes
- D. 2 hours 37 minutes
- E. 3 hours 23 minutes

Correct Answer: C

QUESTION 14

What is the percentage of the total fires caused by electrical equipment and other equipment combined?

**MAJOR CAUSES OF HOME FIRES
IN THE PREVIOUS 4-YEAR PERIOD**

Cause (% of Total)	Fires Civilian
Deaths (% of Total)	
Heating equipment 161,500 (27.5%) (16.8%)	770
Cooking equipment 104,800 (17.8%) (7.7%)	350
Incendiary, suspicious 65,400 (11.1%) (13.6%)	620
Electrical equipment 45,700 (7.8%) (9.6%)	440
Other equipment 43,000 (7.3%) (5.3%)	240
Smoking materials 39,300 (6.7%) 1,320 (28.9%)	
Appliances, air conditioning 36,200 (6.2%) (2.7%)	120
Exposure and other heat 28,600 (4.8%) (4.2%)	191
Open flame 27,200 (4.6%) (2.9%)	130
Child play 26,900 (4.6%) (8.1%)	370
Natural causes 9,200 (1.6%) (0.2%)	10



- A. 7.8%
- B. 14.9%
- C. 15.1%
- D. 29.9%
- E. 30.0%

Correct Answer: C

QUESTION 15

Use the table to answer the question below:

PRODUCTION OF FARM-IT TRACTORS FOR THE MONTH OF APRIL

FACTORY	APRIL OUTPUT
Dallas	450
Houston	425
Lubbock	
Amarillo	345
TOTAL	1780

What was Lubbocks production in the month of April?

- A. 345
- B. 415
- C. 540
- D. 550
- E. 560

Correct Answer: E