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California Basic Educational Skills Test - Math

Test Prep CBEST-Section-1-Math

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QUESTION NO: 1

Ron is half as old as Sam, who is three times as old as Ted. The sum of their ages is 55. How old is Ron?

- A. 5
- B. 8
- C. 10
- D. 15
- E. 30

ANSWER: D**Explanation:**

Let T equal Ted's age; S equal Sam's age, which is 3T; R equal Ron's age, which is s/2, or.3T/2. The sum of the ages is

$$55: \frac{3T}{2} + 3T + T = 55.$$

Convert the left side of the equation into fractions so you can add them:

$$\frac{3T}{2} + \frac{6T}{2} + \frac{2T}{2} + \frac{2T}{2} = \frac{11T}{2}$$

Now you have =11T/2 55. Multiply both sides by 2: 11T = 110. Divide through by 11 to get T = 10. That is Ted's age. Sam is three times Ted's age, or 30. Ron is half Sam's age, or 15 years old.

QUESTION NO: 2

A rectangular tumbling mat for a gym class is 5 feet wide and 7 feet long.What is the area of the mat?

- A. 12 square feet
- B. 22 square feet
- C. 24 square feet
- D. 35 square feet
- E. 42 square feet

ANSWER: D**Explanation:**

The area is width times length, in this case, 5 times 7, or 35 square feet.

QUESTION NO: 3

John's Market sells milk for \$2.24 per gallon. Food Supply sells the same milk for \$2.08 per gallon. If Mitzi buys 2 gallons of milk at Food Supply instead of John's, how much will she save?

- A. \$0.12
- B. \$0.14
- C. \$0.32
- D. \$0.38
- E. \$0.42

ANSWER: C

Explanation:

To find the answer, work this equation: $(\$2.24 - \$2.08) \times 2 = \$0.32$.

QUESTION NO: 4

The basal metabolic rate (BMR) is the rate at which our body uses calories. The BMR for a man in his twenties is about 1,700 calories per day. If 204 of those calories should come from protein, about what percent of this man's diet should be protein?

- A. 1.2%
- B. 8.3%
- C. 12%
- D. 16%
- E. 18%

ANSWER: C

Explanation:

The problem is solved by dividing 204 by 1,700. The answer, 0.12, is then converted to a percentage, 12%.

QUESTION NO: 5

Use the diagram below to answer the question

DISTANCE TRAVELED FROM CHICAGO WITH RESPECT TO TIME

Time (hours)	Distance from Chicago (miles)
1	60
2	120
3	180
4	240

A train moving at a constant speed leaves Chicago for Los Angeles at time $t = 0$. If Los Angeles is 2,000 miles from Chicago, which of the following equations describes the distance from Los Angeles at any time t ?

A. $D(t) = 60t - 2,000$

B. $D(t) = 60t$

C. $D(t) = 2,000 - 60t$

D. $D(t) = \frac{2,000}{60t}$

E. $D(t) = 2,000 + 60t$

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

ANSWER: C

Explanation:

The speed of the train is 60 miles per hour, obtained from the table. Therefore, the distance from Chicago would be equal to $60t$. However, as the train moves on, the distance decreases from Los Angeles, so there must be a function of $-60t$ in the equation. At time $t = 0$, the distance is 2,000 miles, so the function is $2,000 - 60t$.

QUESTION NO: 6

A child has a temperature of 40 degrees

C. What is the child's temperature in degrees Fahrenheit? $F = \frac{9}{5}C + 32$.

- A. 100 degrees F

- B. 101 degrees F
- C. What is the child's temperature in degrees Fahrenheit? $F = \frac{9}{5} C + 32$.
102 degrees F
- D. 103 degrees F
- E. 104 degrees F

ANSWER: E

Explanation:

Use the formula provided: $\frac{9}{5} (40) + 32 = 72 + 32 = 104$.

QUESTION NO: 7

Anne has two containers for water: a rectangular plastic box with a base of 16 square inches, and a cylindrical container with a radius of 2 inches and a height of 9 inches. If the rectangular box is filled with water 9 inches from the bottom, and Anne pours the water into the cylinder without spilling, which of the following will be true?

- A. The cylinder will overflow.
- B. The cylinder will be exactly full.
- C. The cylinder will be filled to an approximate level of 10 inches.
- D. The cylinder will be filled to an approximate level of 8 inches
- E. The cylinder will be filled to an approximate level of 6 inches.

ANSWER: A

Explanation:

The amount of water held in each container must be found. The rectangular box starts with 16 square inches times 9 inches = 144 cubic inches of water. The cylindrical container can hold $3.14(4)(9)$ cubic inches of water, which is approximately 113 cubic inches. Therefore, the container will overflow.

QUESTION NO: 8

In the Pinebrook school district last year, 220 students were vaccinated for measles, mumps, and rubella. Of those, 60 percent reported that they had had flu at some time in their lives. How many students had not had the flu previously?

- A. 36
- B. 55
- C. 88

D. 126

E. 132

ANSWER: C

Explanation:

If 60% of the students had had flu previously, 40% had not had the disease. 40% of 220 is 88.

QUESTION NO: 9

Julie counts the cars passing her house, and finds that 2 of every 5 cars are foreign. If she counts for an hour, and 60 cars pass, how many of them are likely to be domestic?

A. 12

B. 24

C. 30

D. 36

E. 40

ANSWER: D

Explanation:

If 2 of 5 cars are foreign, 3 of 5 are domestic. $\frac{3}{5}$ (60 cars) = 36 cars.

QUESTION NO: 10

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%

ANSWER: A

Explanation:

Multiply the percentages by one another

(30% = 0.30; 15% = 0.15). $0.30 \times 0.15 = 0.045$ or 4.5%.