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California Basic Educational Skills Test - Math

Test Prep CBEST-Section-1-Math

Version Demo

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QUESTION NO: 1

Textbooks are to be ordered in the following quantities:

History: 24 books at \$20 each

Math: 20 books at \$30 each

Science: 15 books at \$25 each

What is the total cost of the textbooks?

- A. \$1455
- B. \$1495
- C. \$1500
- D. \$1510
- E. \$1550

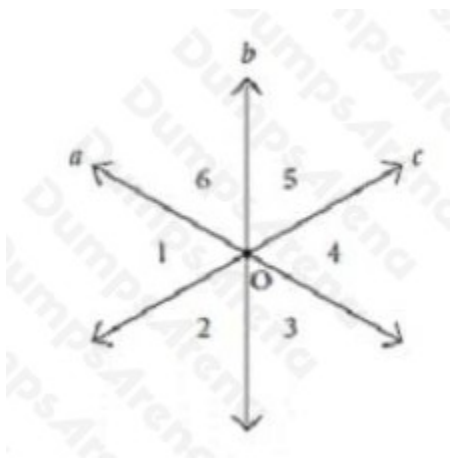
ANSWER: A

Explanation:

24 history books at \$20 each are \$480. 20 math books at \$30 each are \$600. 15 science books at \$25 each are \$375. $\$480 + \$600 + 375 = \$1455$.

QUESTION NO: 2

Use the diagram to answer



In the diagram, lines a, b, and c intersect at point O. Which of the following are NOT adjacent angles?

- A. $\angle 1$ and $\angle 6$
- B. $\angle 1$ and $\angle 4$
- C. $\angle 4$ and $\angle 5$
- D. $\angle 2$ and $\angle 3$
- E. All of the angles are adjacent.

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

ANSWER: B

QUESTION NO: 3

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

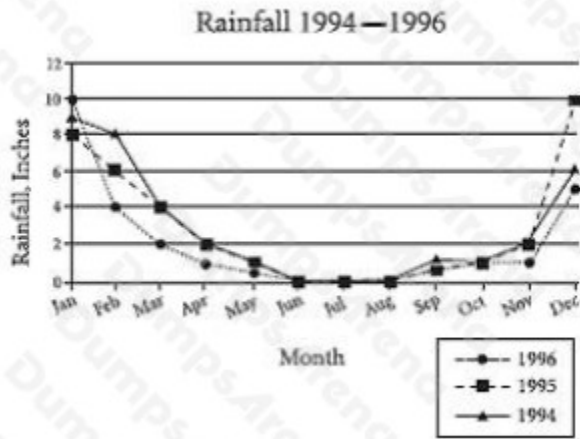
- A. Option A
- B. Option B
- C. Option C
- D. Option D

ANSWER: A

Explanation:

For the answer,

$$\frac{2}{3} \text{ divide by } \frac{5}{12}, \text{ which is the same as } \frac{2}{3} \times \frac{12}{5} = \frac{24}{15} = 1\frac{3}{5}$$

QUESTION NO: 4

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

ANSWER: C**Explanation:**

The mean is the sum of the values divided by the number of values. Add $8 + 6 + 4 = 18$ inches, and then divide by 3 to get 6 inches.

QUESTION NO: 5

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.

ANSWER: C

Explanation:

You can find the price per ounce of each brand, as follows:

Brand	W	X	Y	Z
Price in cents per ounce:	$\frac{21}{6} = 3.5$	$\frac{48}{15} = 3.2$	$\frac{56}{20} = 2.8$	$\frac{96}{32} = 3.0$

It is then easy to see that Brand Y, at 2.8 cents per ounce, is the least expensive.

QUESTION NO: 6

A 15 cc dosage of a medication must be increased by 20 percent. What is the new dosage?

- A. 17 cc
- B. 18 cc
- C. 20 cc
- D. 30 cc
- E. 35 cc

ANSWER: B

Explanation:

20 percent of 15 cc equals $(0.20)(15)$ equals 3. Adding 3 to 15 gives 18 cc.

QUESTION NO: 7

A machine on a production line produces parts that are not acceptable by company standards 4% of the time. If the machine produces 500 parts, how many will be defective?

- A. 4
- B. 8
- C. 10
- D. 16
- E. 20

ANSWER: E**Explanation:**

4% is equal to 0.04. $500 \times 0.04 = 20$.

QUESTION NO: 8

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

ANSWER: C**Explanation:**

3% is equal to 0.03, so multiply 2,500 times 0.03 and then add the result to 2,500, for a total of 2,575.

QUESTION NO: 9

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 7 \times 2 = \0.32 .

QUESTION NO: 10

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.