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QUESTION NO: 1

A masonry company plans to bid on pouring footer for a new building. The building is to be 80 feet long and 50 feet wide. The building will have a concrete footer under all four sides. The dimensions are 3 feet deep and 10 inches wide all the way around the building. How much concrete will be needed for the footer? (Round to the nearest $\frac{1}{4}$ cubic yard).

- A. $2 \frac{1}{2}$ cubic yards
- B. $24 \frac{1}{4}$ cubic yards
- C. $72 \frac{1}{4}$ cubic yards
- D. $370 \frac{1}{2}$ cubic yards
- E. $4444 \frac{1}{2}$ cubic yards

ANSWER: B**QUESTION NO: 2**

A landscaping firm is planning a new garden display. The garden will measure 4 feet by 12 feet. Each flower takes up 9 square inches. If the firm orders less than 500 flowers, the cost is \$0.45 each; if they order over 500, the cost is \$0.36 each. How much will it cost to plant the flower garden?

- A. \$2.40
- B. \$76.80
- C. \$194.40
- D. \$276.48
- E. \$345.60

ANSWER: D**QUESTION NO: 3**

At the movies, Lucy bought food for herself and her friend Rachael, including: 1 box of popcorn to share at \$5 a box, 1 box of mints for each of them at \$2.50 a box, and 1 soda pop for each at \$2.75 each. Rachael bought both tickets for \$6.50 apiece. Who spent the most money and by how much?

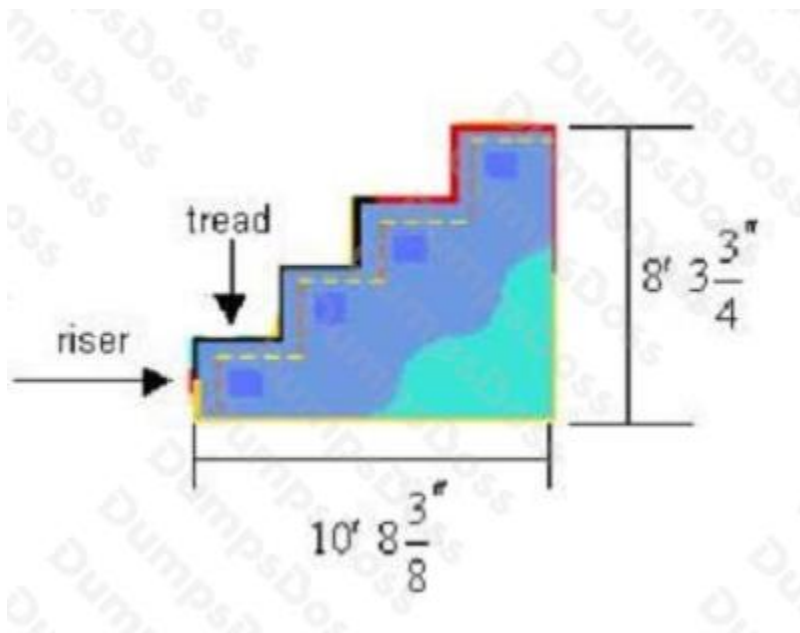
- A. Rachael by \$2.50
- B. Rachael by \$2.75

- C. Lucy by \$2.75
- D. Lucy by \$2.50
- E. They both spent the same amount.

ANSWER: D

QUESTION NO: 4

A construction company is building a new staircase. You previously determined that there are to be 14 risers and 13 treads. However, you forgot to write down what the width of each tread should be. Determine the width of each tread.



- A. $6\frac{1}{2}"$
- B. $7\frac{1}{8}"$
- C. $7\frac{7}{8}"$
- D. $8\frac{1}{2}"$
- E. $9\frac{7}{8}"$

ANSWER: E

QUESTION NO: 5

The landscape company you work for has a truck that can haul 1200 pounds per load. If you have 5600 pounds of materials to be delivered, how many trips will have to be made?

- A. 3 trips
- B. 4 trips
- C. 4.5 trips
- D. 5 trips
- E. 6 trips

ANSWER: D

QUESTION NO: 6

You are preparing to tile a floor of a rectangular bathroom that is 9 1/2 feet by 12 1/2 feet. The tiles the customer has chosen are six inches long on a side and are sold in boxes of 100. How many boxes of tiles must you order to complete the job?

- A. 3
- B. 4
- C. 5
- D. 6
- E. 7

ANSWER: C

QUESTION NO: 7

Nicholas has strep throat. His doctors order an injection of 300,000 units of penicillin. The penicillin vial reads 150,000 units per cc. How many ccs did the doctor give Nicholas?

- A. 1
- B. 1 cc
- C. 1 1/2 cc
- D. 1 3/4 cc
- E. 2 cc

ANSWER: E

QUESTION NO: 8

A nurse is taking a patient's pulse. If the patient's heart beats 12 times in 15 seconds, what is the patient's pulse rate per minute?

- A. 24
- B. 30
- C. 36
- D. 48
- E. 60

ANSWER: D**QUESTION NO: 9**

An 18-inch tall cone-shaped container with a base diameter of 1 foot is full of vegetable oil. A 10-inch tall cylindrical container is filled from the cone. What is the minimum diameter that the cylinder must have in order to hold the vegetable oil?

- A. about 7 inches
- B. about 9 inches
- C. about 12 inches
- D. about 18 inches
- E. about 21 inches

ANSWER: B**QUESTION NO: 10**

An insurance policy pays 80% of the first \$20,000 of a patient's medical expenses, and 60% of the remainder. If the patient's total medical bill is \$72,000, how much will the policy pay?

- A. \$43,200
- B. \$47,200
- C. \$62,000
- D. \$57,600
- E. \$100,800

ANSWER: B

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