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# CBEST-SECTION-1<sup>Q&As</sup>

## California Basic Educational Skills Test - Math

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**QUESTION 1**

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. $D(t) = 60t \tilde{\ } 2,000$
B. $D(t) = 60t$
C. $D(t) = 2,000 \tilde{\ } 60t$

D. $D(t) = \dfrac{2,000}{60t}$
E. $D(t) = 2,000 + 60t$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: C

**QUESTION 2**

What is the volume of a pyramid that has a rectangular base 5 feet by 3 feet and a height of 8 feet? (V = 1/3 lwh)
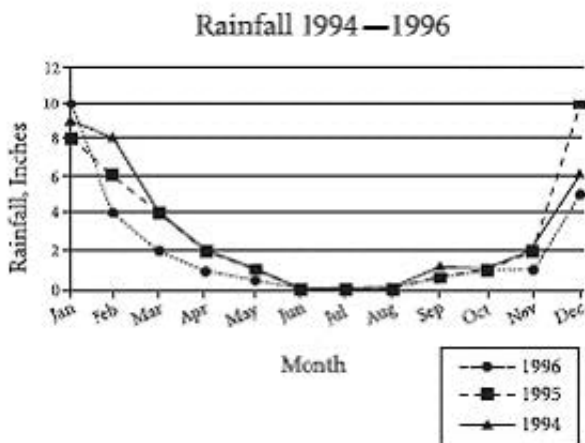
A. 16 feet

B. 30 feet

C. 40 feet

D. 80 feet

E. 120 feet

Correct Answer: C

## QUESTION 3

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



Rainfall 1994—1996

A. 4 inches

B. 5 inches

C. 6 inches

D. 7 inches

E. 8 inches

Correct Answer: C

## QUESTION 4

Of the following causes, which one has the highest ratio of total fires to percentage of deaths?

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

| Cause (% of Total) Deaths (% of Total) | Fires Civilian |
|---|---|
| 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. heating equipment

B. smoking materials

C. exposure and other heat

D. child play

E. natural causes

Correct Answer: B

**QUESTION 5**

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

Correct Answer: C

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