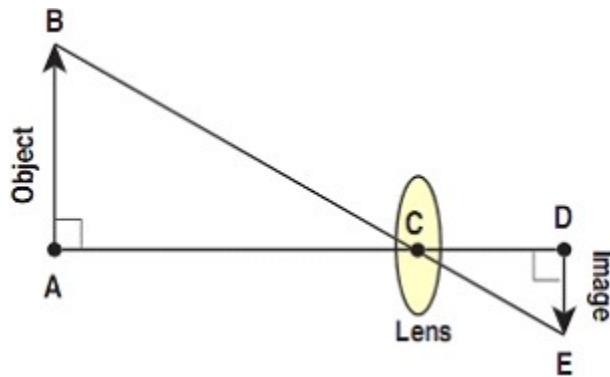**Correct Answer:** A

QUESTION 86
Which of the following proportions shows the relationship between the height of the object (AB) and the height of its image (DE) in the diagram at the left?

A. $\dfrac{AB}{DE} = \dfrac{AC}{CE}$

B. $\dfrac{AB}{DE} = \dfrac{BC}{AC}$

C. $\dfrac{AB}{DE} = \dfrac{BC}{CD}$

D. $\dfrac{AB}{DE} = \dfrac{AC}{CD}$

E. $\dfrac{AB}{DE} = \dfrac{CD}{DE}$

Correct Answer: D

QUESTION 87
It takes 10 days to mow a 140-acre park using a tractor that is available only 4 hours perday. If the same amount of acreage is mowed each day, how many acres per hour must be mowed?

A. 14.0
B. 7.0
C. 5.5
D. 3.5
E. 2.7

Correct Answer: D

QUESTION 88
Five items were purchased for a total of $52.50. The three least expensive items cost $3.40, $7.90, and $9.80, respectively. What was the cost of the most expensive of the 5 items?

A. $15.70

B. $42.70
C. $44.60
D. $49.10
E. Not enough information is given.

Correct Answer: E

QUESTION 89
In 0.35 hours, 4,200 gallons of water flow over a small dam. At this rate, how many gallons of water will flow over the dam in one hour?

A. 12,000
B. 8,400
C. 7,000
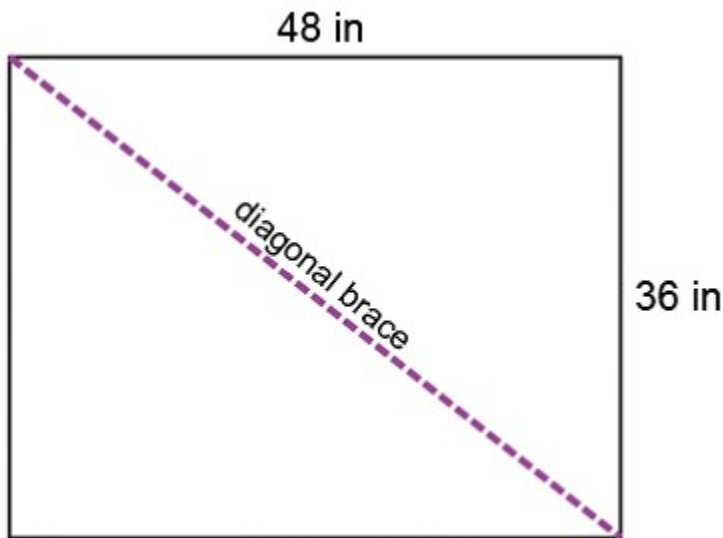D. 2,730
E. 1,470

Correct Answer: A

QUESTION 90
To raise funds for a charity drive, Danielle convinced 40 businesses to each pledge to donate $10 per month for 6 months. Which expression equals the total number of dollars pledged for the charity drive?

A. 40(10)(6)
B. 40(6)(6)
C. 40(10)(60)
D. 40(6)(60)
E. Not enough information is given.

Correct Answer: A

QUESTION 91
What is the length, in inches, of the diagonal brace?

A. 42
B. 48
C. 60
D. 72
E. 84

Correct Answer: C

QUESTION 92
Potatoes can be purchased in 10-kilogram bags for $14 or loosely for $2 per kilogram. Harry bought one 10-kilogram bag of potatoes and 3 kilograms of loose potatoes.Which of the following expressions equals the average price per kilogram, in dollars, for the potatoes Harry bought?

A. $\dfrac{14 + 2(3)}{13}$

B. $13 \times \dfrac{2}{3}$

C. $\dfrac{14}{10} \times \dfrac{2}{3}$

D. $14 - \dfrac{2}{2}$

E. $\dfrac{14 + 2}{13}$

Correct Answer: A

QUESTION 93
The number of games in a shipment must be a multiple of 25 and 40. What is the FEWEST number of games that could be in the shipment?

A. 800
B. 200
C. 120
D. 75
E. 50

Correct Answer: B

QUESTION 94
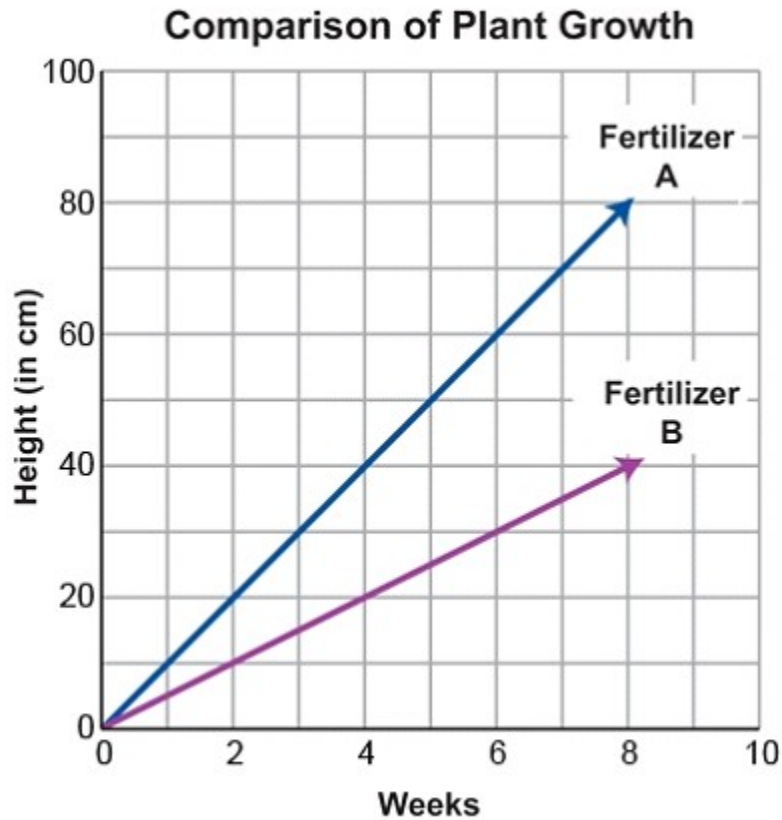If a, b, and c are three different numbers, and a minus b equals c, which of the following statements must be true?

A. b = ac
B. a = bc
C. b = a - c
D. a = b - c
E. a = c - b

Correct Answer: C

QUESTION 95
The slopes of the lines give the average growth rates of the plants, in centimeters per week, using the two fertilizers.

Comparison of Plant Growth

What is the average growth rate, in centimeters per week, using fertilizer A?

A. 85
B. 45
C. 15
D. 10
E. 5

Correct Answer: D

QUESTION 96
CORRECT TEXT