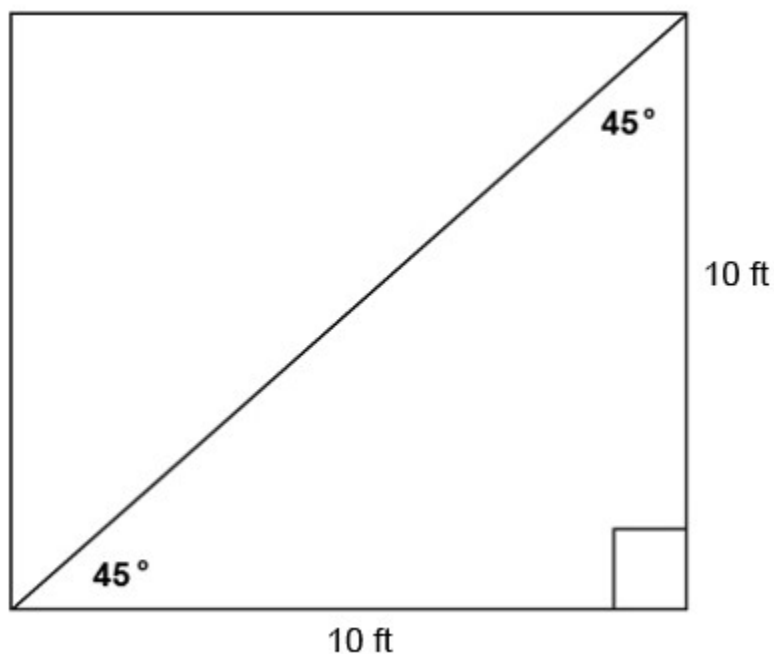


E. 15

Correct Answer: D

QUESTION 63

The boards on the surface of an outdoor deck are often placed at a 45° angle for decorative appeal. The hypotenuse of a 45° - 45° - 90° right triangle is found by multiplying the length of a leg by $\sqrt{2}$. To the nearest tenth of a foot, how long must a board be to cover the diagonal of the square deck shown at the left?



- A. 11.9
- B. 12.6
- C. 13.2
- D. 13.8
- E. 14.1

Correct Answer: E

QUESTION 64

Jasmine had a piece of wood that was inches long. She cut off one piece that was 12 inches long, and cut the remaining section into two pieces of equal length. If $87\frac{3}{4}$ inch of wood was wasted making the two cuts, how long, in inches, were each of the two equal pieces?

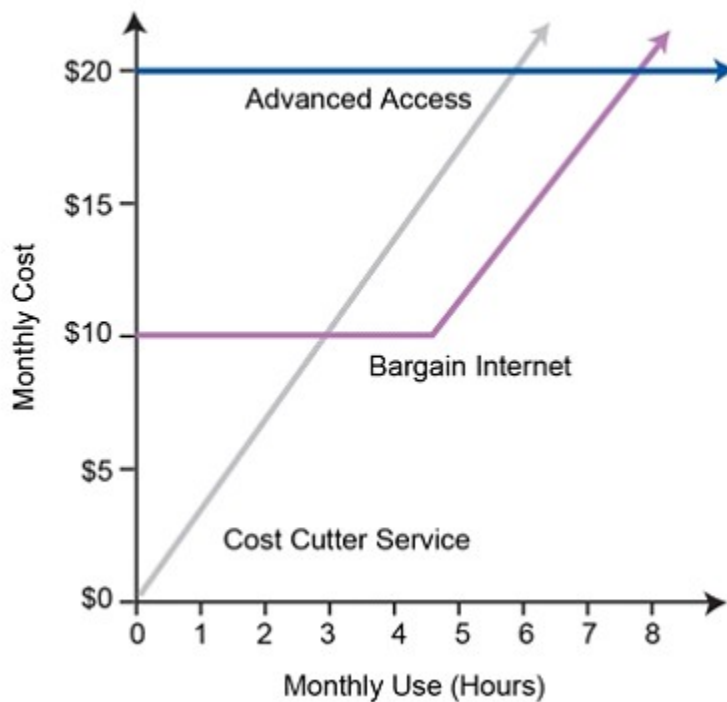
- A. $32\frac{1}{4}$
- B. $37\frac{3}{4}$
- C. $43\frac{1}{4}$
- D. $43\frac{3}{4}$
- E. $75\frac{1}{2}$

Correct Answer: B

QUESTION 65

The slope of the function gives the cost per hour for using each Internet service. To the nearest whole dollar, what is the approximate cost per hour for using the Cost Cutter Service?

Internet Access Fees Charged by Three Companies



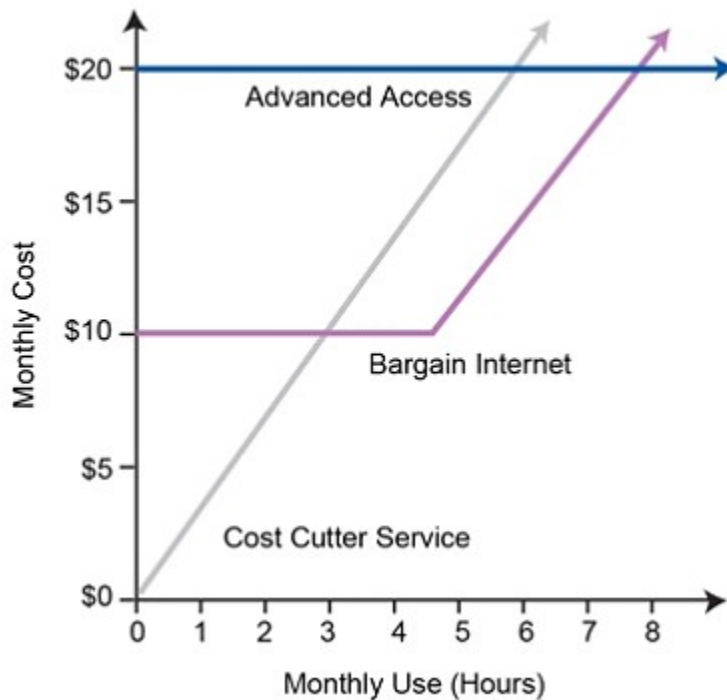
- A. \$1
- B. \$3
- C. \$5
- D. \$6
- E. \$8

Correct Answer: B

QUESTION 66

How much MORE does it cost to use Advanced Access service for 6 hours per month than to use the same service for 2 hours per month?

Internet Access Fees Charged by Three Companies



- A. \$ 0
- B. \$ 4
- C. \$20
- D. \$40
- E. Not enough information is given.

Correct Answer: A

QUESTION 67

A police officer stopped Martin for driving 65 miles per hour, or 10 miles per hour over the posted speed limit. The fine for speeding is \$50.00 plus \$10.00 for each mile per hour over the speed limit, up to 5, and then \$15.00 for each mile per hour over that. Which expression below shows how much Martin was fined?

- A. $\$50.00 + \10.00
- B. $\$50.00 + \$10.00E.$
- C. $\$50.00 + \$15.00E.$
- D. $\$50.00 + \$10.00(10)$
- E. $\$50.00 + \$10.00E.+ \$15.00E.$

Correct Answer: E

QUESTION 68

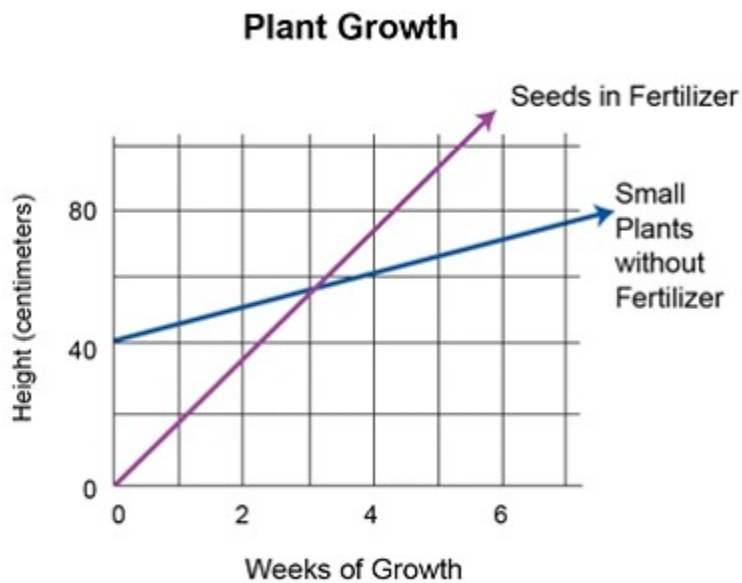
If $x = 5$ and $y = 2x + 2$, what is the value of y ?

- A. $\frac{2}{3}$
- B. 9
- C. 12
- D. 14

Correct Answer: D

QUESTION 69

After two weeks, what was the approximate height (in centimeters) of the small plants that were not fertilized?

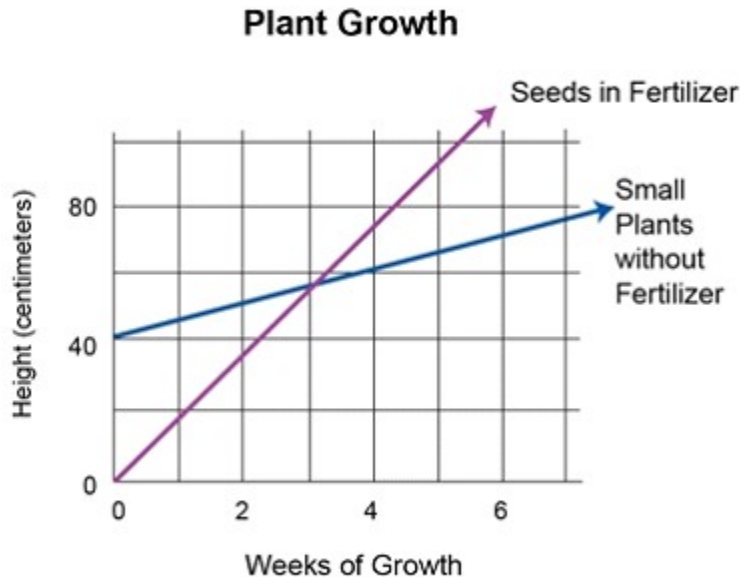


- A. 40
- B. 50
- C. 60
- D. 70
- E. 80

Correct Answer: B

QUESTION 70

After how many weeks of growth was the height of the seeds in fertilizer the same as the height of the small plants not fertilized?



- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

Correct Answer: C

QUESTION 71

Shelly paid a total of \$80 for seven tickets for a hockey game. Five of the tickets were in the cheapest price range, and two were in the most expensive range. If the cheaper tickets were \$10 each, which of the following equations could be used to determine x , the price (in dollars) of the expensive ones?

- A. $7(10) + 2x = 80$
- B. $2(10) + 7x = 80$
- C. $5(10) + 2x = 80$
- D. $2(10) + 5x = 80$
- E. $5(10) + 7x = 80$

Correct Answer: C

QUESTION 72

A basket weaver charges the following amounts for baskets: