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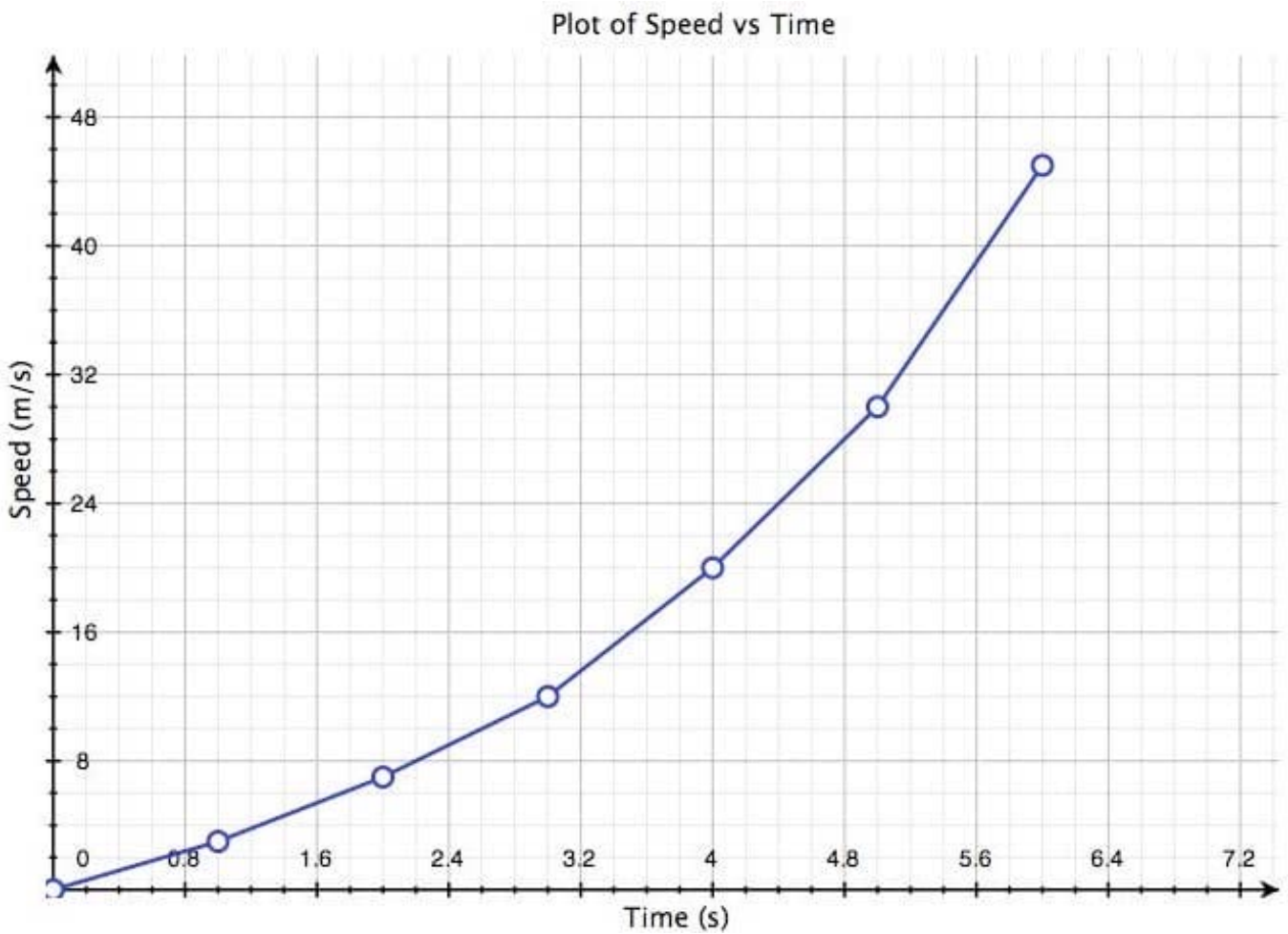
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QUESTION 1



The figure shows a graph of the speed of a test vehicle, plotted every second for 6 seconds during an experiment.

Which of the following statements best describes the motion of the vehicle during this time?

- A. The vehicle starts by moving slowly and continues to pick up speed during the entire time.
- B. The vehicle slows down at first, then picks up speed during the last 2 seconds of the time measured.
- C. The vehicle is moving rapidly at the start of measurement and slows down to a stop at the end.
- D. The vehicle moves at the same speed the entire time.

Correct Answer: A

QUESTION 2

Brad plans to leave instructions with his broker to sell all of his shares in a particular company if the value of its stock rises more than 10% above the current price, but to purchase additional shares if the stock's value falls more than 10% below its present value. The stock is currently selling for \$73.50 a share.

Which expression represents the interval, n , between which the broker should neither buy nor sell any shares of the company's stock for Brad?

- A. 69.83
- B. 73.60
- C. 66.15
- D. 63.50

Correct Answer: C

QUESTION 3

Sebastian purchased a brand new car three years ago for \$35,000. The following year its value was estimated at \$23,850, and the year after that the price dropped to \$20,400.

Approximately what was the percentage change in the value of Sebastian's vehicle between one year and two years after its purchase?

- A. -42%
- B. 86%
- C. -14%
- D. 14%

Correct Answer: C

QUESTION 4

What is the fraction equivalent of 0.032?

- A. $\frac{32}{100}$
- B. $\frac{4}{125}$
- C. $\frac{4}{250}$
- D. $\frac{8}{125}$

Correct Answer: B

QUESTION 5

What is the number of sides of a regular polygon whose interior angles are 156° each? (Remember, the sum of exterior angles of any polygon is 360° .)

A. 15

B. 14

C. 6

D. 8

Correct Answer: A

QUESTION 6

Which of the following is an improper fraction?

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

B. 2.50

C. $\frac{5}{2}$

D. $\frac{13}{5}$

Correct Answer: C

QUESTION 7

Express 5.6 meters as a percentage of 8 meters.

A. 70%

B. 4.48%

C. 25%

D. 75%

Correct Answer: A

QUESTION 8

Pete, Dan, and Carlyle had to dig a 2-foot deep trench to run conduit to their garage so they could wire it for electricity. To share the work, each agreed to dig $\frac{1}{3}$ of the way from the house to the garage. Dan went first and dug $\frac{1}{9}$ of the total distance early the next morning.

What fraction of the total amount of work did Dan still need to complete?

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

B. $\frac{2}{9}$

C. $\frac{3}{9}$

D. 8/9

Correct Answer: B

QUESTION 9

In a sale, all prices are reduced by 40%.

Calculate the original price of an article whose sale price is \$42.

A. \$72

B. \$58.80

C. \$105

D. \$70

Correct Answer: D

QUESTION 10

When a number is subtracted from 125 and the result is divided by 12, the answer obtained is twice the original number.

What is the number?

A. 10

B. 5

C. 4

D. 25

Correct Answer: B

QUESTION 11

Sam, Paul, and Dean share a sum of money in the ratio 14:16:18 respectively. Given that Sam receives \$2100, how much does Dean receive?

A. \$2400

B. \$2000

C. \$2700

D. \$5100

Correct Answer: C

QUESTION 12

What is the value of a in this equation? $6a/5 - 2a/2 = 1/2$

- A. $2/5$
- B. 5
- C. $20/4$
- D. $5/2$

Correct Answer: D

QUESTION 13

In a competition, three teams, A, B and C, scored a total of 150 points.

If A scored 40% of this total and B scored four times as many points as C, what were the number of points scored by B?

- A. 72
- B. 90
- C. 18
- D. 60

Correct Answer: A

QUESTION 14

The cost of 1 pound of fruit is \$3.40.

How many pounds of food can be bought for \$12.00?

- A. 0.35 pounds
- B. 3.53 pounds
- C. 6.3 pounds
- D. 35 pounds

Correct Answer: B

QUESTION 15

Precipitation (inches)			
Date	Albany	Coral Bay	Bunbury
6/1	0.01	0.02	0.02
6/2	0.25	0.35	0.00
6/3	0.55	0.75	0.20
6/4	0.00	0.45	0.10
6/5	0.90	1.01	0.50
6/6	2.00	2.15	1.90
6/7	0.95	1.05	1.15

What was the average amount of precipitation received in all areas on the fifth of the month?

- A. 0.95 inches
- B. 2.41 inches
- C. 1.01 inches
- D. 0.80 inches

Correct Answer: D

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