

MATHS

BOOKS - KAPLAN INC MATHS (ENGLISH)

THE MATHOD OF SAT MATH QUESTIONS

Try On Your Own

1. A cargo airpolane has a maximum takeoff weight of 19,000 kilograms. The airplane, crew, and fuel have a combined weight of 14,750kilogrms. The airpolne will be loaded with n identical cargo containers, each of which has a weight of 125 kilograms. What is the greatest value of n such that the airplane does not exceed its maximum takeoff weight?

A. 28

B. 34

C. 118

D. 152

Answer: B



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2. A certain model of laptop comuter is priced at \$550 at a local electronics store. The same model laptop at an online retailer4 sells for $\frac{9}{10}$ of the electronics store's price. At a luxury department store, the same model laptop sell for $\frac{7}{5}$ of the electronics store's price. How

many dollars mre is the cost of the laptop at the luxury department store than at the online retailer?

- A. 198
- B. 220
- C. 275
- D. 495

Answer: C



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3. A stack of 75 identical plastic plates forms a column approximately $9\frac{7}{8}$ inches tall. At this rate, which of the following is closest to the number of plates that would be needed to form a column 20 inches tall ?

- A. 125
- B. 150
- C. 185
- D. 220

Answer: B

4. Last monts, kiera ran 22 more miles than Bianca did. If they ran a combined total of 86 miles, how many miles did bianca run?

A. 27

B. 37

C. 43

D. 54

Answer: B

5. If
$$\frac{4x}{2y}=4$$
, what is the value of $\frac{3y}{x}$?

A.
$$\frac{3}{4}$$

$$\mathsf{B.}\;\frac{4}{3}$$

$$\mathsf{C.}\;\frac{3}{2}$$

Answer: C



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Which of the following equations realates y to x accoreing to the values shown in the table above ?

A.
$$y=\left(rac{2}{5}
ight)^x-rac{7}{5}$$

B.
$$y=\left(rac{3x}{5}
ight)^2-2$$

$$\mathsf{C.}\,y = \frac{5}{2}x - \frac{3}{5}$$

D.
$$y = \frac{2}{5}x + \frac{3}{5}$$

Answer: D

n=5, what is the value of c?

7.
$$n - \sqrt{c+5} = 1$$

In the equation above, c is a constant. If

A. -1

B. 0

C. 3

D. 11

8. At a child's lemonade stand, p pitchers of lemonade are made by adding m packets of lemonade mix to cold water. If m=2p+4, how many more packets of lemonde mix are needed to make each additional pitcher of lemonade?

A. 0

B. 1

C. 2

Answer: C



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9. A health club changes a one-time membership free of \$125 plus n dollars for each month. If a membe pays \$515 dollars for the first six months, inc,uding the membership fee, what is the value of n?

A. 55

B. 65

C. 75

D. 85

Answer: B



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10. If x>0, which of the following is equivalent to $\frac{2}{\frac{1}{x+6}+\frac{1}{x+2}}$?

A.
$$x^2 + 8x + 12$$

$$\mathsf{B.}\;\frac{x+4}{x^2+8x+12}$$

$$C. 2x + 8$$

D.
$$\frac{x^2 + 8x + 12}{x + 4}$$

Answer: D



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