9112120

In the figure below, what is the value of x?

om

*1*2 om

a. 4*/*3 cm b*. 5/2* cm c. 2 cm d. *6*cm

z. The end of a tent has a cross-section as shown below. What is the depth (d) of the tent if

its volume is 216 cubic feet*?*

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ft -

|-\*-21-

a. 4.5 ft b. 6.0 ft c. 6.5 ft d. 7.0 ft

:. Which sạm below can be expressed as a non-repeating decimal?

a. *(1/*2) + (1*/*6) b. (1*/*3) + (*1/*4) C. (*1/*3) + (1*/5*) d. *(1/4*)+(1/5)

4. Judy is n years older than Carmen and twice as old as Frances. If Frances is 15, how old

is Carmen in terms of n?

a. 30+n b. 15+n C. 15+ 2n d. 30-n

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5. Mis 20% of N, and N is 5% of 1,000. Which is the value of M?

a. 10 b. 40 c. 100 d. 250

6. Solve: (13+2x)-(4-x) =

a. 9 - 3x b. 9+x c. 9 + 3x d. 13 + 3x

7. Tara flew her plane at an a*v*erage speed of 310 kilometers per hour for 4.5 hours. About

how far did she travel*?*

a. 300 km b. 500 In c. 1,500 km d. 3,000 km

*8*. An11-sided polygon has 3 sides each of length x centimeters and 6 sides each of length

2x centimeters. The lengths of the other 2 sides are 12 centimeters and 13 centimeters. If the perimeter of the polygon is 100 centimeters, what is the value of x*?*

a. 3

*5*

c. 12 d. 25

9

The product of 3 different positive integers is 10. What is their sum*?*

a. *7* b. 8 C. 10 d. 13

10. What is the area of a square that has the same perimeter as the triangle below?

8 cm

a. 16 sq cm b. 24 sq cm c. 32 sq cm d. 36 sq cm

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11 There are x seats in the Ralston Theater and y seats in the Baker Theater. The Baker

Theater has 3 more than twice as many seats as the Ralston Theater. What is the value of y in terms of x?

a. X+3 b. 2x+3 c. 2x-3 d. 3x

12. Solve:

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a. 1*7*6 b. 3*/*10 *c. 7/*10 d. 9*/*10

13. Which pair of numbers does not have a product equal to 36?

a. -4 and -9 b. - 3 and - 12 c. *1*/2 and - 72 d. 3*/*2 and 24

141. If n= 4 and k=13, what is the value of x?

a. 12 b. 40

15 Mary thought of a positive two-digit number. She multiplied it by 3 and added 11. Then

she switched the digits of the result, obtaining the number 74. What was Mary's original number?

a. 11 b. 12 C. 13 d. 14

16 A line parallel to x-y+3 =0 in the coordinate plane has a slope of

a. 0 b. 1 c. 2 4. 3

UN

7. The longest professional golf match ever played lasted a total of 3 hours and 55 minutes.

How many minutes was this?

a, 235 b. 25*5* C. 315 d. 355

18. The average score for Abby's four math tests is 88. If she received a 82, 85, and 93 on

her first three exams, what is the score of her fourth exam*?*

*a*. 88

b. 90

C.

92

d. 94

19. What are the coordinates of point J?

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answer

a. (0,3) b. (-3,0) c. (0,-3) d. (3,0)

20. Middle-school students sold cookies in packages of 12. On the first day, they sold x

packages. On the second day, they sold twice as many packages as on the first day. Which expression shows the number of cookies they sold on the second day?

a. 12 *(*2x) b. 12 (x+2) c. 12 *(*x-2) d. 12*x/2*

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21 Ifx + -y and x? -y2= 13, then x - y=

x+y A) V13 B) 7 C) 13 D) 169

*2*2. Ifn> 4, which of the following is equivalent to n-47(n) +4

. *v(*a*)*-2 A) VA B) 2 Vn C*)* Vn+*2* D) Xn *-2*

2*3*. Before the market opens on Monday, a stock is priced at $25. Ifits pric**e decreases $4**

**on Monday, increases $6 on Tuesday, and t**hen decreases $2 on We**dnesday, what is**

**the final price of the stock on Wednesda*y?. '*A*)* $12B ) $21 €) $25*D* ) $29**

***IT***

24. Diane painted *1/*3 of her room with 242 cans of paint. How many more cans of paint

**will she need to finish painting her room*?*** A) 5 B) 7 *% C) 1*0 D) 12*42*

25. Between 1950 and 1960 the population of Country A **increase**d by 3.5 million people.

If the amount of increase between 1960 and 19*7*0 was 1.75 million more than the **increase from 1**950 to 1960, w**hat was t**he total amount of increase in population in

Country A betweeri 1950 and 1970? A) *1.*75 million B) 3,5 million C) 5.25 million *D*) 8.*75* million

*i*

*26* Ms. Smith drove a total of 700 miles on a business trip. If her car averaged 35 miles

per gallon of gasoline and gasoline cost an average of $1.25 per gallon, how much did ļ she spend on gasoline for this trip?

A) $17.50 B) $25,00

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*t* C) $35.00

r*o* i oson .

D) $70.00

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27 There is enough candy in a bag to give 12 pieces of candy to each of 20 children, with

Tio.candy left over. If 5 children de not want any candy, how many pieces of candy

can be given to each of the others? **A7-12 B) 1**5.- C)16\_ D) 18

Short Response Questions

**A public health study found that in a certain t**own, 30% of the **citizens are malnourished. If that town has a population of 1320, how many of its citizens are malnourished?**

**A bowl of soup at temperaturex is left out in a cold room. For e*v*ery minute that the soup is in the room, its temperature drops** by 10t d**egrees, where t is the number of minutes that the soup. has been in the room. Ifx = 150, how many minutes will it take for the soup's temperature to reach 40 degrees?**

**(A) 19 (B) 4*4*** (C) 396 **(D) 528**

:2*9*

**A truck contains exact**ly *7* barrels. Each barrel c**ontains at least 120 apples but no more t**han 180 apples. Which of the following **could be the number of apples on th**e truck?

*(*A) 600 (B) 800 *(*C) 1000 **D) 1300**

**Set A contains the element**s (5,4,8,9, 14, 10, 1). Set B co**ntains the elements *(*1**0, 7, 6, 13, 1,4,9, 12). What is **the mean of the intersection of A an*d B?***

***3***

:36

Ifx=2, w**hat is the area of the shaded region?**

If 2+ = + = 167, what is Iu\**?*

**X1**

**Arnold buys a new suit, on sale at 15% off. After a year he sells the su**it for $200, which is 20% **less than the price he paid to buy** it. How much did the suit-cost before it was put on sale? (round **your answer to the neare**st dollar)

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