

More Praxis Practice

1) $\sqrt{58}$ is between:

- A) 4 & 5 B) 5 & 6 C) 6 & 7 D) 7 & 8 E) 8 & 9

2) $29.7 \times \frac{11}{5.3}$ is closest to:

- A) .06 B) .6 C) 6 D) 60 E) 600

3) Two adjacent angles form a straight line. The acute angle is 30° . What is the other angle?

- A) 30 B) 60 C) 90 D) 120 E) 150

4) Given one inch is approximately 2.54 centimeters, 6.4 centimeters would equal how many inches?

- A) 2.5 B) 3.9 C) 8.3 D) 16.3 E) 41.2

5) Marcy sold the most boxes of cookies. Beth sold five fewer. Suzy sold ten fewer. Which of the following is true?

- A) Beth sold more than Marcy.
B) Marcy sold twice as many as Beth.
C) Beth sold twice as many as Suzy.
D) Suzy sold more than Marcy.
E) Beth sold more than Suzy.

6) Given $\frac{a}{b} = \frac{c}{d}$, which of the following is not equivalent?

- A) $\frac{a}{c} = \frac{b}{d}$ B) $\frac{a}{d} = \frac{b}{c}$ C) $\frac{d}{c} = \frac{b}{a}$ D) $ad = bc$ E) $\frac{a+b}{b} = \frac{c+d}{d}$

7) The average of Paula and Randy's salaries is \$95,200. Paula, Randy, and Simon's average salary is \$101,000. What is Simon's salary?

- A) \$94,600 B) \$95,200 C) \$101,400 D) \$110,200 E) \$112,600

8) A sample of seven-hundred and fifty people represents between 6% and 10% of the population of a town. Which of the following could be the population of the town.

- A) 5,000 B) 7,000 C) 12,000 D) 14,000 E) 19,000

9) The diagonal of a square is 40. What is the length of a side?

- A) 20 B) $20\sqrt{2}$ C) 40 D) $40\sqrt{2}$ E) 45

10) How many nickels are equivalent to 35 quarters?

- A) 175 B) 315 C) 425 D) 535 E) 875

11) Darla's house increased 30% in value from 1978 to 2005. If the house cost \$409,500 in 2005, what did it cost in 1978?

A) \$300,000 B) \$315,000 C) \$328,500 D) \$400,600 E) \$500,000

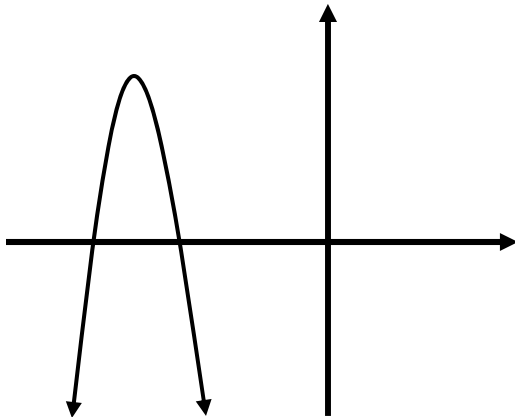
12) In a group of 385 people, the ratio of children to adults is 2:5. How many of them are children?

A) 55 B) 110 C) 125 D) 250 E) 285

13) The points (19,4) and (37,7) lie on the same line with the point (x,10). Find the value of x:

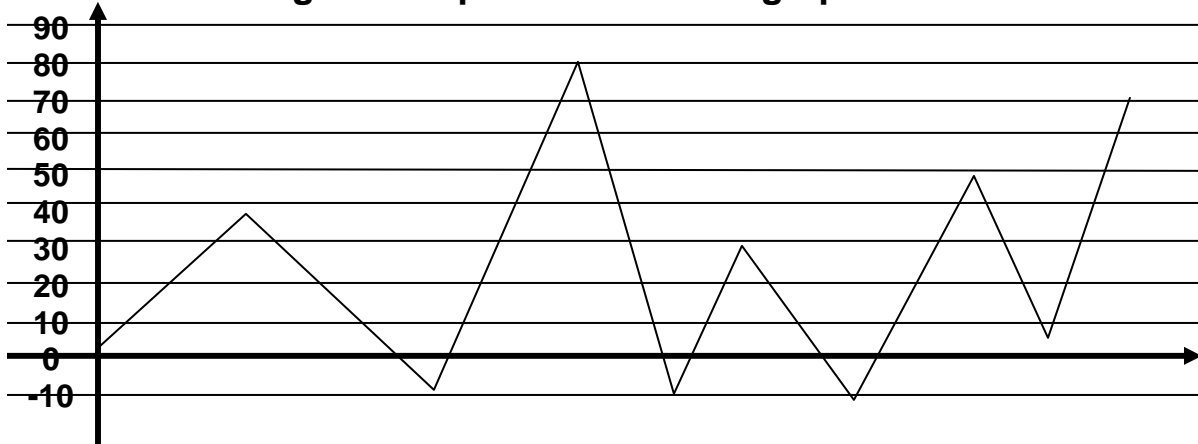
A) 50 B) 53 C) 55 D) 57 E) 60

14) Which point could represent the vertex of the graph below?



A) (-5,0) B) (-4,3) C) (-2,0) D) (0,-5) E) (0,-2)

15) What is the range of temperatures on the graph below?



- A) 60 B) 70 C) 80 D) 90 E) 100

16) Given the statement:

“Y is equal to the quotient of 4 more than 5 times a number and 8.”

Which of the following shows the reverse of this statement?

- A) $x = \frac{8y - 4}{5}$ B) $x = 5y - 2$ C) $x = \frac{8y - 5}{4}$ D) $\frac{5y - 8}{4}$ E) $x = 6 - 3y$

$$y + \square > 11$$

$$y > 17$$

17) What is the smallest value for \square that will satisfy both inequalities?

- A) 29 B) 20 C) 15 D) -7 E) -6

18) How could you convert 105 nickels into quarters?

- A) $\frac{105}{5}$ B) $105 \times 5 \times 25$ C) $105 \times \frac{25}{5}$

19) Given that x and y vary inversely so that $xy = k$.
If $x = 20$ when $y = 2$, find y when $x = 8$.

20) $\sqrt{12 \times 27} = ?$

21) Given: $29 = \frac{8 \times \square}{5} + \square$ When the boxes are replaced in order, which of the following numbers results in the correct equation?

- A) 10, 1 B) 10, 2 C) 15, 3 D) 15, 4 E) 15, 5

22) Given the following set of instructions:

Step 1: Take a number, n .

Step 2: Multiply it by 4.

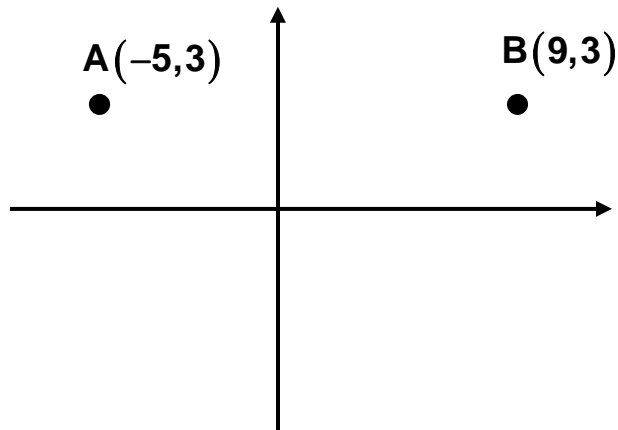
Step 3: Add 10

Step 4: Divide by 3

Step 5: Subtract 1.

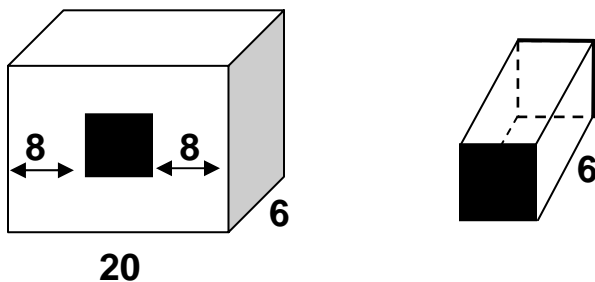
If the result, after following these five steps is 17, what is n ?

23) What point is equidistant between A and B?

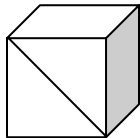


- 24) Tawanda wants to average 200 miles driving per day on her five day trip. The first four days she drive 230, 150, 200, and 180 miles. How many miles will she need to drive on the fifth day?

- 25) A rectangular solid is cut out of the solid shown so that is has a square face. What is the volume of the smaller solid?



- 26) If the volume of a cube is 64, find the length of a diagonal of one of the faces of the cube.

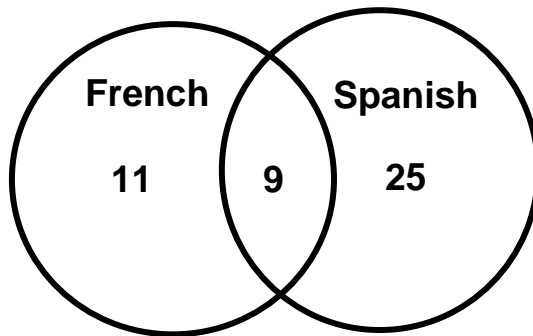


- 27) There are k red marbles in a jar, m white marbles, and q orange marbles. What is the probability of picking a white marble?

- 28) What is the value of $a(b - c) + a(c - b)$?

- 29) The numerator of a fraction is 10 less than twice the denominator.
The fraction is equal to $\frac{9}{7}$. What is the denominator?
- 30) A teacher has 7 boxes of cookies with 14 cookies in a box. He gives out 4 cookies to each of his students and has 2 left. How many students does he have?
- 31) If S represents all of the multiples of ten between 50 and 150 so that S is greater than 50 but less than 150, what is the median of S ?
- 32) What is the median of this list of numbers?
6, 2, -1, -10, -5, 1, 4
- 33) Dawn said that if you multiply $\frac{1}{4}$ by any number, you will get a smaller number. Which of the following disproves her statement?
- A) $\frac{1}{4}$ B) 1 C) 0 D) $\frac{1}{3}$ E) $\frac{4}{7}$

- 34) A group of 58 students were asked what language they were studying in school. How many students were not studying French or Spanish?



- 35) In a group of x students, $\frac{3}{5}$ of them are women. Of the woman, $\frac{5}{6}$ of them are college graduates. Which of the following represents the number of women who are college graduates?

A) $\left(\frac{3}{5}x\right)\left(\frac{5}{6}\right)$ B) $\left(\frac{5}{6}x\right)\left(\frac{3}{5}\right)$ C) $\left(\frac{3}{5} \cdot \frac{5}{6}\right)x$ D) All of these

- 36) Take the number n , double it, add 3, multiply the result by 6, and then subtract 7. Which of the following represents these instructions?

A) $2n + 3 \times 6 - 7$ B) $2(n + 3) \times 6 - 7$ C) $6(2n + 3) - 7$

37) You tell the bank teller that you want to cash a check for \$2,000. You want the money in \$100 bills and \$10 bills only and you want between 10 and 15 one-hundred dollar bills. The number of ten-dollar bills must be between:

38) Triné divides her class of y students into x groups of three students each but has 2 students left over. Which represents this?

A) $y = 3x + 2$ B) $y = 3x - 2$ C) $y = \frac{x}{3} - 2$

39) The ratio of boys to girls in Cedraan's school is 2 to 3. If there are 650 students in the school, how many are girls?

40) If n is a multiple of 18 then n must be a multiple of all but which of these?

A) 2 B) 3 C) 4 D) 6 E) 9

41) Given the formula: $P = 1000(1 + .02t)$. Find t when $P = 2500$.

42) In March, my gas station sold unleaded gas at \$2.45/gallon.
In May the price was \$2.89/gallon. How much more gas would \$200
buy in March?

43)
$$p = 6r^2$$
$$r = 3$$

Given the above information, find the value of p .

44) How many 4.5 ft pieces of rope can be cut from a rope that
is 30 ft. long?