Praxis 5003 Study Guide

Section: 5003 Elementary Education Mathematics Subtest Exams • **Total Questions:** 10 • **Format:** Verified Q&A

1. Stella has a recipe for punch that requires 1 teaspoon of sugar for every 8 ounces of strawberries. According to the recipe, if Stella uses 3 pounds of strawberries, how many teaspoons of sugar are required?

(A) 3
(B) 6
(C) 24
(D) 48

2. Ray is paid $15 for each hour he works. His total wages are w dollars, and his total hours worked are hours. One way to represent Ray's total wages is w=15h. Which of the following statements is true?

(A) The dependent variable is the total wages earned.
(B) The dependent variable is the hourly rate.
(C) The dependent variable is the total hours worked.
(D) The dependent variables are both the hourly rate and the total hours worked.

3. Which of the following would be read as two million three hundred six thousand nine hundred thirty-four?""""""""

> *Isabella: 1,590+8*
> *Jayden: 1,590-10*
> *Michael: 1,600+8*
> *Sarah: 1,600-10*

(A) 2,036,934
(B) 2,306,934
(C) 2,360,934
(D) 2,369.03

4. Which of the following expressions is equivalent to the expression 3(a-4)-2(b+8) for all values of a and 47

(A) 3a-2b+4

(B) 3a-2b-4

(C) 3a-2b-20

(D) 3a-2b-28

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5. Which of the following statements is true about the dependent variable in the relationship?

(A) Height is the dependent variable because the height of the child depends on the length of the mother's pregnancy.

(B) Height is the dependent variable because the height of the child depends on the length of time that has passed since birth.

(C) Time is the dependent variable because time depends on the number of months that have passed since birth.

(D) Time is the dependent variable because the height measurements of the child are taken every 3 months.

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6. The 50 students in Mr. Smith's third-grade class were asked to pick one color as their favorite. The results from the survey are shown in the preceding pie chart. Which THREE of the following questions can be answered from the information shown in the chart?

(A) Which color is preferred the most?

(B) How many students preferred red?

(C) What sampling method was used to collect the data?

(D) What percent of the students chose purple as their favorite color?

(E) How many more students chose green than chose blue?

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7. Sarah, Juan, and Ivan walk to the office each day. Sarah lives 2.375 miles from the office, Juan lives 1.125 miles from the office, and Ivan lives 1.375 miles from the office. Place the names in order from distance closest to the office to distance farthest from the office.

(A) Sarah, Juan, Ivan

(B) Juan, Sarah, Ivan

(C) Ivan, Juan, Sarah

(D) Juan, Ivan, Sarah

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8. Samantha is 2 years younger than Jake. The total of their ages is 26. What are the ages of Samantha and Jake? Let S be Samantha's age and let J be Jake's age. Which of the following systems of equations can be used to solve the word problem shown?

(A) J - S = 2; S + J = 26

(B) S - 2 = J; S + J = 26

(C) S - j = 2; S + j = 24

(D) S = j = 2; S + j = 24

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9. The annual profit of Company X for five years is given in the preceding line graph. Which of the following can be concluded from the line graph?

(A) The annual profit increased every year over the five years.

(B) The annual profit increased at a constant rate over the five years.

(C) The average of the four changes in annual profit for consecutive years is positive. —

(D) The largest increase in annual profit was $400,000.

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10. Which of the following mental computations gives the closest estimate of the answer to the preceding problem?

(A) Dividing 480 by 8

(B) Dividing 480 by 10

(C) Dividing 490 by 7

(D) Dividing 490 by 10