



FIRST QUARTERLY ASSESSMENT
MATHEMATICS 12
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Name: _____

Score: _____/70

Grade and Section: _____

Date: _____

Test I.

A. Identification. Identify what is being described in each statement. Write your answer on the space before each number (10 points).

A. Salary

B. Benefits

C. Supply Chain

D. List Price

E. Wage

F. Fraction

G. Trade Discount Rate

H. Net Price

I. Income

J. Denominator

_____ 1. A network between a company and its suppliers to produce and distribute a specific product or service.

_____ 2. The percentage of the discount.

_____ 3. The price of the product without discounts.

_____ 4. Actual price a customer pays after deducting any trade discounts.

_____ 5. A fixed amount usually associated with employee compensation usually received on a monthly or semi-monthly basis, but it may be quoted in an annual sum.

_____ 6. Usually associated with employee compensation that is based on the number of hours/days worked multiplied by an hourly/daily rate of pay.

_____ 7. The total amount that people earn in exchange of the goods, employment, businesses, investments and professional services that they have rendered.

_____ 8. Employee compensation given by an employer other than the basic salary/wage. It may come in the form of cash or in kind.

_____ 9. Consists of two numbers separated by either a horizontal or diagonal line.

_____ 10. Indicates the number of parts into which one (1) is divided.

B. Write TRUE if the statement is correct and FALSE if it is not.

_____ 11. The top part of a fraction is called numerator.

_____ 12. The lower part of a fraction is called denominator.

- _____13. The bar line of a fraction is called the vinculum.
- _____14. To make solving easier, cancel out terms using the GCF of the given fractions.
- _____15. To get the lowest term, you need to get the GCF and divide both numerator and denominator with it.
- _____16. A fraction is a part of a whole.
- _____17. To get the GCF, you need to get the multiples of the numbers.
- _____18. To get the LCD, you need to get the factors of the numbers.
- _____19. Fractions cannot have a higher numerator than the denominator.
- _____20. Simply add the numerators and denominators if the given addends are similar fractions.

Test II.

A. Addition of fractions. Simplify the final answer.

Criteria:

Solution: 2pts

Answer: 3pts

$$21-25. \quad \frac{16x^2}{x+7} + \frac{4x}{x+7}$$

$$26-30. \quad \frac{4}{x} + \frac{x+3}{x+2}$$

B. Subtraction of fractions.

Criteria:

Solution: 2pts

Answer: 3pts

$$31-35. \quad \frac{10x^3}{x+5} - \frac{2x}{x^2+10x+25}$$

$$36-40. \quad \frac{13x^2}{x+7} - \frac{4}{x^2-49}$$

C. Multiplication of fractions.

Criteria:

Solution: 2pts

Answer: 3pts

$$41-45. \frac{x+6}{x^2-25} \times \frac{x+5}{x^2+12x+36}$$

$$46-50. \frac{x^2+16x+64}{x^2+2x} \times \frac{2x^2+8x+8}{x^2+10x+16}$$

D. Division of fractions.

Criteria:

Solution: 2pts

Answer: 3pts

$$51-55. \frac{121x}{144x} \div \frac{11x}{12x}$$

$$56-60. \frac{x^2+18x+81}{x^2+6x} \div \frac{x^2-81}{x+6}$$

VI. Answer the following with 2-3 sentences.

61-65. In simplifying polynomial fractions, we need to distribute the factors in order for us to get the right product. As a student how do you distribute your time properly in studying and in personal life?

66-70. What is the importance of studying Business Math?
