



SENARO EDUCATION CENTER

School of English Medium Studies

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MATHEMATICS

GRADE 06

Lesson 18 – ALGEBRAIC SYMBOLS.

Worksheet

1. Emma has x number of pencils. If she gives away 3 pencils to her friend, identify the known term, unknown term, and variable in this situation.
2. The perimeter of a rectangle is 24 units. If the length of the rectangle is unknown, identify the known term, unknown term, and variable in this scenario.
3. A recipe requires 2 cups of flour to make 12 cookies. If the number of cookies to be made is unknown, identify the known term, unknown term, and variable in this context.
4. A car traveled at a speed of 60 kilometers per hour for t hours. If the distance traveled is unknown, identify the known term, unknown term, and variable in this scenario.
5. The temperature dropped by 10 degrees Celsius overnight. If the original temperature is unknown, identify the known term, unknown term, and variable in this situation.
6. John has \$20 and wants to buy a toy. If the cost of the toy is unknown, identify the known term, unknown term, and variable in this context.
7. A school bus picks up n number of students at each bus stop. If the total number of students picked up is unknown, identify the known term, unknown term, and variable in this scenario.
8. The area of a square is A square units. If the length of one side is unknown, identify the known term, unknown term, and variable in this situation.
9. A store offers a discount of 15% on all items. If the original price of an item is unknown, identify the known term, unknown term, and variable in this context.
10. The time taken to complete a race is t minutes. If the distance covered in the race is unknown, identify the known term, unknown term, and variable in this scenario.
11. A store sells apples for \$0.50 each. If the total cost of buying x apples is \$10, identify the known term, unknown term, and variable in this situation.
12. A student receives \$5 for each book they read over the summer. If the student earned a total of \$25, identify the known term, unknown term, and variable in this scenario.
13. Sarah bought a ticket to a concert for \$40. If she also paid an additional \$15 for transportation, identify the known terms, unknown term, and variable in this situation.
14. A car rental agency charges a flat fee of \$50 plus \$30 per day for renting a car. If a customer rented a car for x days and paid a total of \$250, identify the known term, unknown term, and variable in this context.
15. Sarah's monthly phone bill is \$30 plus an additional \$0.10 for each text message she sends. If her total bill was \$50, identify the known term, unknown term, and variable in this scenario.
16. A grocery store sells a bag of rice for \$5. If a customer buys x bags of rice and pays a total of \$20, identify the known term, unknown term, and variable in this situation.
17. Emma earned \$10 per hour for mowing lawns during her summer break. If she earned a total of \$80, identify the known term, unknown term, and variable in this scenario.
18. A pizza restaurant charges a delivery fee of \$5 plus an additional \$1.50 per mile traveled. If the total delivery charge is \$15, identify the known term, unknown term, and variable in this context.
19. A farmer sells eggs for \$2 per dozen. If a customer bought x dozens of eggs and paid a total of \$8, identify the known term, unknown term, and variable in this situation.

20. A company charges a monthly membership fee of \$20 plus an additional \$5 per service used. If a customer's total bill was \$35, identify the known term, unknown term, and variable in this scenario.