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Quadratic Equation

Sheet 1

1) Abraham throws a ball from a point 40 m above the ground. The height of the ball from the ground level after 't' seconds is defined by the function $h(t) = 40t - 5t^2$. How long will the ball take to hit the ground?

2) The area of a rectangular pool is 1260 ft². Find the dimensions of the rectangle, if one side of the pool is 48 ft more than three times the other side.

3) The sum of the squares of two consecutive natural numbers is 313. Find the numbers.

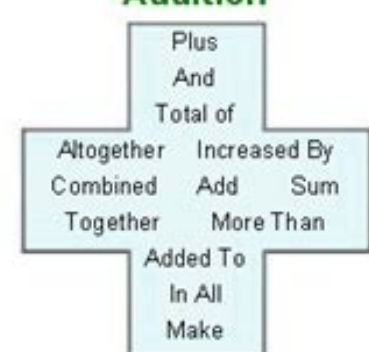
4) Two faucets can fill a tank in 1 hour and 20 mins. The time taken by faucet A alone to fill the tank is 2 hours more than faucet B were to fill the same tank separately. How long does it take faucet A alone to fill the tank?

5) If one side of a square is increased by 10 cm and another side is increased by 5 cm, a rectangle is formed with an area that measures three times the area of the square. Find the length of the side of the square.

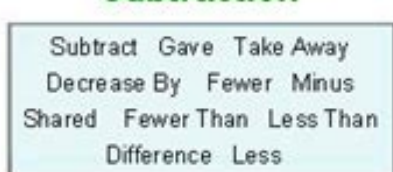
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Words and Phrases to Math Symbols

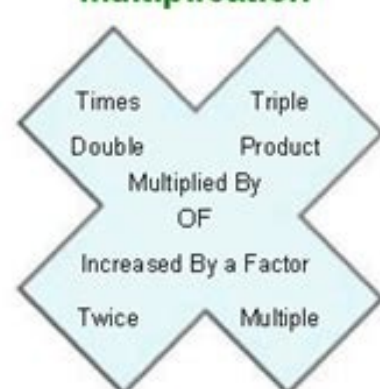
Addition



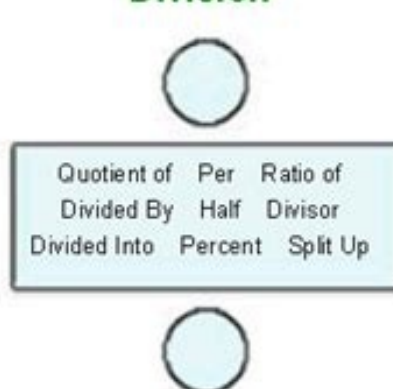
Subtraction



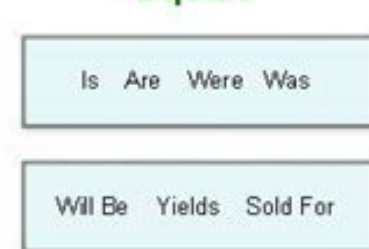
Multiplication



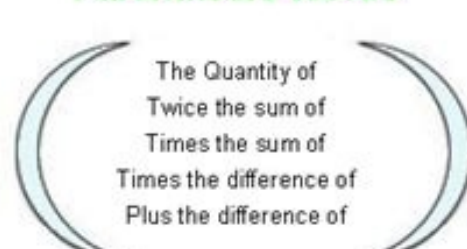
Division



Equals



Parenthesis Words



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Translating Algebraic Phrases (D)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. the product of a number c plus sixteen and the same number minus twenty-six _____
2. the difference of a number b and itself _____
3. the sum of a number r and its cube _____
4. the square of the quotient of a number t and seventy _____
5. the sum of a number z and ninety-one divided by thirty-six _____
6. the sum of a number p and sixty-three to the power of four _____
7. the product of a number k and sixty-nine is divided by sixty-four _____
8. four times the square of a number y divided by eighty-seven more than e _____
9. a number h divided by the square of eighty _____
10. a number j multiplied by itself sixty-five times _____
11. the product of a number s and itself _____
12. half of the square root of a number d _____
13. a number f squared plus twice the same number minus twenty _____
14. the sum of three tenths of a number q and sixty _____
15. the difference of the square root of a number m and eighty-five _____
16. the square root of the difference of a number g and fifty-six _____
17. the sum of a number v and itself _____
18. seven eighths of a number n is subtracted from twelve _____
19. the difference between the cube of a number w and thirty-four _____
20. fifteen times the cube of the difference of a number x and nine _____

Word Problem	Algebraic Expression
A number minus 6	$n - 6$
9 less than a number	$n - 9$
Subtract 10 from a number	$n - 10$
A number decreased by 5	$n - 5$
Joe is 9 years younger than Drew who is n years old.	$n - 9$
Jenna's salary, s is lowered by \$120	$s - 120$
Subtraction is not commutative, so you must be careful with the order in which you write the algebraic expression. Take a look at how the same key words are used to write a different expression.	
6 minus a number	$6 - n$
9 less a number	$9 - n$
Subtract a number from 10	$10 - n$
5 decreased by a number	$5 - n$
Drew is n years younger than Joe who is 9 years old.	$9 - n$

Up to 20: S1



Subtraction Word Problems

- 1) Jim ate 6 scoops of chocolate ice cream. His friend Ned savored 1 scoop of strawberry ice cream. How many more scoops of ice cream did Jim eat than Ned?

- 2) There are 16 fish in a tank. 7 are guppy fish, and the rest are tetra fish. How many tetra fish are there?

- 3) Alice has 20 crayons. She gives 10 crayons to Sara. How many crayons does Alice have?

- 4) There are 17 balls in a basket. All of the balls are either green or blue. If 9 balls are green, how many blue balls are in the basket?

- 5) Patricia carved 12 pumpkins for a Halloween activity. Her sister Ashley added to the gaiety by carving 5 pumpkins. How many more pumpkins did Patricia carve than Ashley?

- 6) Rick has 14 toy cars. If he gives 2 toy cars to Ed, how many toy cars does Rick have now?

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