

Math 8 - 10.0 Translating Phrases to Algebraic Expressions

In math, words and phrases are often used to describe a real life situation. We can use this information to write an algebraic expression that we can solve. Yes, these are two part questions.

<u>Words</u>	<u>Example</u>
Added	
Doubled	
Divided	
Decreased	
Difference	
Equal (s)	
Half/halved	
Increased	
Is	
Multiplied	
Of	
Opposite	
One half	
One quarter	
One third	
Product	
Quadrupled	
Quotient	
Result	
Squared	
Subtracted	
Sum	
Times	
Tripled	
The number	
The value	
Three fifths	
Thrice	
Twice	

Name: _____

Math 8 Math Basics Part 1

You may do your work directly onto this worksheet. Please be neat.

Translate each of the following sentences into math.

Part A

Use "n" for the variable.

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|-----------------------------------|-------|-------------------------------------|-------|
| 1. A number increased by 6. | _____ | 7. The sum of 9 and a number. | _____ |
| 2. Eight increased by a number. | _____ | 8. A number tripled. | _____ |
| 3. A number decreased by 4. | _____ | 9. Two-thirds of a number. | _____ |
| 4. Seven times a number. | _____ | 10. The opposite of a number. | _____ |
| 5. The product of a number and 6. | _____ | 11. Twice the opposite of a number. | _____ |
| 6. Eight divided by a number. | _____ | | |

Part B

Use "n" for a variable.

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|---|-------|
| 1. Six decreased by a number. | _____ |
| 2. One-quarter of a number. | _____ |
| 3. The sum of negative two and a number. | _____ |
| 4. Twenty divided by a number. | _____ |
| 5. The product of a number and $\frac{1}{3}$. | _____ |
| 6. A number halved. | _____ |
| 7. A number squared. | _____ |
| 8. A number subtracted from one-half the number. | _____ |
| 9. Five more than six times a number. | _____ |
| 10. 3 less than the square of a number. | _____ |
| 11. The sum of a number and twice the number. | _____ |
| 12. 3 less than three-fourths of a number. | _____ |
| 13. A number multiplied by 7 and the result increased by 5. | _____ |
| 14. Ten less than one-half the number. | _____ |
| 15. A number added to the square of the number. | _____ |
| 16. A number subtracted from one-half the square of the number. | _____ |
| 17. The product of 4 times a number and the number. | _____ |
| 18. The sum of a number and the number cubed. | _____ |
| 19. The sum of the cube of a number and -8. | _____ |
| 20. The number of days in "r" weeks. | _____ |
| 21. The number of minutes in "w" hours. | _____ |