

Math 60/80 "Intro to word problems: Direct translation Problems"

Translate each into an algebraic expression. Let x represent the unknown

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| 1) The sum of -5 and a number | 2) a number increased by 32.3 |
| 3) the product of a number and $\frac{2}{3}$ | 4) half of a number |
| 5) 8 less than a number | 6) 9 more than 6 times a number |
| 7) the sum of twice a number and 31 | |

Choose a variable to represent one quantity, then express the second in terms of the first.

Example: The clippers scored five more runs than the braves.

Clippers _____ $B+5$ _____

Braves _____ B _____

- 8) The blue Jays scored 3 fewer runs than the Indians
- 9) Jan has \$.55 more in her piggy bank than Bill
- 10) Sue had \$.25 less than twice Ralph.
- 11) There were 1433 visitors to the center. Some were adults the rest were children.
- 12) There were 12,765 tickets sold to fans. Some held tickets the rest had special passes.

Solve each:

- 13) A paperback book costs \$12.50 less than the hardback version. If you purchase one of each, you will pay \$37.40. Find the cost of the paperback edition.
- 14) Allison went shopping. Her bathing suit cost \$8 more than a pair of shorts, and a t-shirt cost \$2 less than the shorts. If Allison spent \$60 total on the items, how much did each cost?
- 15) A total of \$20,000 is to be invested in stocks and bonds. If the amount in bonds is \$3000 greater than the amount in Stocks, how much is invested in each?
- 16) A serving of Kashi's Go Lean cereal has 4 times the fiber of the Kellogg's brand. If you eat a serving of each you will consume 10 grams of fiber. How much fiber is in each brand?