

**TRANSLATING TO EQUATIONS**

**Translate the words into algebraic equations.**

1. A number increased by nine is fifteen.

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2. Four less than a number is twenty.

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3. A number divided by five and then increased by four is sixteen.

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4. Two less than three percent of a number is sixty-four.

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5. Thirty-two is twice a number increased by eight.

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6. The quotient of fifty and five more than a number is ten.

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7. Fifteen is 7 more than the product of three and a number.

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**Translate each situation into an algebraic equation.**

8. Suzanne made a withdrawal of  $d$  dollars from her savings account. Her old balance was \$350, and her new balance is \$280.

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9. Ann has 5 DVD's which is 3 less than twice the amount that Bob has.

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10. Nate rode the roller coaster 8 times, which was twice as many times as he rode the Ferris wheel.

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11. Each piece of candy costs 25 cents. The price of  $c$  pieces of candy is \$2.00.

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12. Jan, who bought \$15 worth of make-up, spent \$6 less than Leah spent.

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13. At the Homecoming Dance, the DJ played 12 slow dances, which was equal to the quotient of the number of fast dances and 2.

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14. The 1,840 rock concert tickets sold were twice the amount of jazz concert tickets sold.

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15. Meg received 90 votes for Student Council President, which was 50 less than twice the amount that Tom received.

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16. The 347 students who listed soccer as their favorite sport were 13 less than three times the number of students who listed basketball as their favorite sport.

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17. A large pizza pie with 15 slices is shared among  $p$  students so that each student's share is three slices.

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**Choose the best answer.**

\_\_\_\_\_ 18. Which situation can be represented by  $y = 60x - 20$ ?

- A. The time remaining in minutes,  $y$ , for  $x$  hours after 20 minutes have past.
- B. The cost,  $y$ , of buying  $x$  pairs of jeans for \$60 with a 20% off coupon.
- C. The cost,  $y$ , after buying raffle tickets for \$40 each.
- D. The number of seconds,  $y$ , in an  $x$  minute commercial if you skip the first 20 minutes.