

# Why Don't They Allow Scissors in the School Cafeteria?

Write an algebraic expression for each exercise. In each set, find exercises with matching answers. One will have a letter and the other a number. Write the letter in the matching numbered box.



Let  $n$  = the number of points that Abe scored. Write an expression for the number of points scored by:

- E. Bart: 5 points more than Abe.
- I. Carl: 5 points less than Abe.
- U. Don: one-fifth of the number Abe scored.
- N. Evan: 3 times as many points as Abe.
- H. Fred: 5 points less than Evan.

Let  $n$  = an unknown number. Write an expression for each phrase:

- 14. The product of 3 and the number.
- 5. The sum of the number and 5.
- 19. The difference of the number and 5.
- 2. Five less than 3 times the number.
- 10. The quotient of the number and 5.

Let  $x$  = the number of points that Uma scored. Write an expression for the number of points scored by:

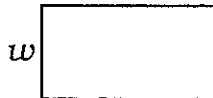
- T. Vera: twice as many points as Uma.
- I. Willa: 7 points less than Vera.
- E. Xena: 7 points more than Vera.
- S. Yara: 7 points more than Uma.
- N. Zora: twice as many points as Yara.

Let  $x$  = an unknown number. Write an expression for each phrase:

- 21. Twice the number, increased by 7.
- 16. Twice the number, decreased by 7.
- 6. The sum of the number and 7.
- 17. Twice the sum of the number and 7.
- 12. The number times 2.

Let  $w$  = the width of a rectangle. The length is 4 cm more than the width. Write an expression for:

- T. Nine times the width.
- N. Half of the width.
- I. The length.
- E. Nine times the length.
- O. 2 cm less than nine times the width.



Let  $w$  = an unknown number. Write an expression for each phrase:

- 13. Four more than the number.
- 3. 9 times the sum of the number and 4.
- 8. Nine times the number, reduced by 2.
- 1. The product of the number and 9.
- 20. The quotient of the number and 2.

Answer each question with an algebraic expression.

- G. If  $x$  is the height of a block, how high is a stack of 20 blocks?
- R. If  $x$  is Mr. Zen's age now, how old will he be in 8 years?
- N. If you take 20 cards from a pile of  $x$  cards, how many cards are left in the pile?
- C. If Gina bought  $x$  pizzas, each cut into 8 pieces, how many pieces did she get?
- L. If  $x$  is the price of a book you buy, how much change will you get from a \$20 bill?
- T. If  $x$  players are divided into 8 teams, how many players are on each team?
- 9. If you work for  $x$  hours and earn \$8 per hour, how much will you earn in all?
- 18. If you take  $x$  cards from a pile of 20 cards, how many cards are left in the pile?
- 4. If Kim has  $x$  comic books and you have 8 more than Kim, how many do you have?
- 7. If  $x$  is Ms. Zon's age now, how old was she 20 years ago?
- 11. If  $x$  players are divided into teams of 8, how many teams are there?
- 15. If  $x$  is the weight of a brick, what is the weight of 20 bricks?

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
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