Did You Hear About . . .

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	??

Solve each inequality or problem. Write the word under the correct solution in the box containing the exercise number.

Answers 1–7

$x \geq 44$ — OFTEN

$x \leq -2\frac{1}{2}$ — AND

$x > 15$ — HER

$x > 4\frac{1}{3}$ — THE

$x < -7$ — MONKEYS

$x > 13$ — GUY

$x \geq 58$ — MET

$x \geq 8$ — WHEN

$x \leq -2$ — GIRL

$x \geq 5$ — IN

$x \leq -4\frac{2}{3}$ — FRIENDS

$x < -4$ — WHO

1. $7x + 2 > 4x + 15$

2. $10 - 3x \geq 5x + 26$

3. $9x + 40 \leq 15 - x$

4. $3(x - 7) > 18$

5. $75 < -5(4x + 1)$

6. $6(2x - 9) \geq 4 + 11x$

7. $8 - 3(4x - 1) \leq -49$

8. $2(t + 5) > 4t - 7(t + 3)$

9. $-4(3t - 9) \geq 8(-8 - t)$

10. $14 - (9t - 2) < -t + 30$

11. $45 > 12t + 3(t - 8) - 6$

12. $5(8 - 2t) \leq 2 + 16(4 + t)$

13. $7(5t - 4) - (2 + 15t) < 60$

14. $9(9t - 4) \geq 12(12t - 3)$

15. Suppose you write a book. The printer charges $4 per book to print it, and you spend $3500 on advertising. You sell the book for $15 a copy. How many copies must you sell so that your income from sales is greater than your total cost?

Answers 8–15

$t > -1\frac{3}{4}$ — DOOR

$t < 8$ — SPINNING

$t \leq 0$ — AROUND

≥ 308 — CIRCLES

$t \leq 25$ — REVOLVING

$t \geq -1$ — STARTED

$t \leq 3\frac{1}{3}$ — IN

≥ 319 — TOGETHER

$t < 5$ — AND

$t > -6\frac{1}{5}$ — A

$t < 4\frac{1}{2}$ — GOING

$t \geq -3$ — DIZZY

Inequalities:
Solving Inequalities With Parentheses and/or the Variable on Both Sides