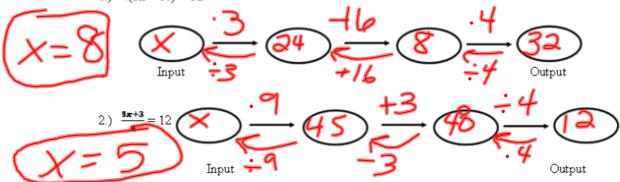
Period

Use backtracking to find the solution of each equation.

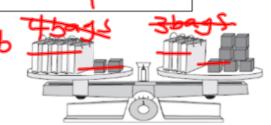
1.) 4(3x-16)=32



3.) Use guess-check-and-improve to solve 3b + 4 = 4b - 2.

| Guess | 3b+4  | 4b - 2 | ] ( , , , |
|-------|-------|--------|-----------|
| 6     | 3:6+4 | 4.6-2  | ]/   /    |
|       | 18-4  | 24-2   |           |
|       | Дa    | 22     |           |
|       |       |        |           |
|       |       |        |           |
|       |       |        |           |

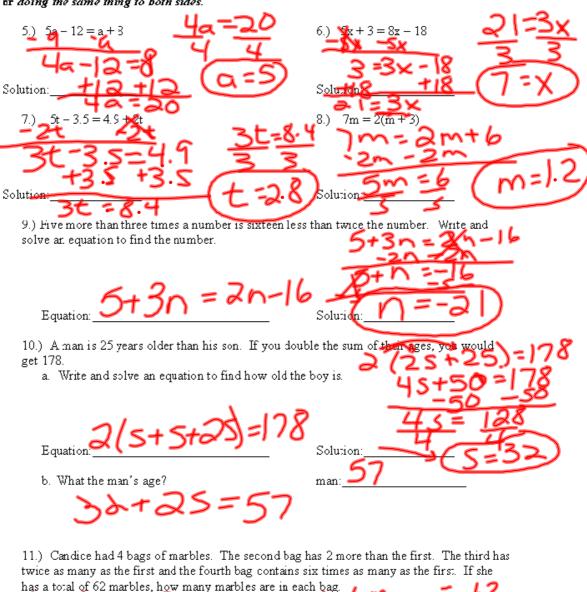
4.) Consider the balance puzzle



- a. Write an equation to fit the puzzle. Let x represent the number of blocks in each bag.
- b. Use the drawing to find the value of x.



Solve each equation choosing one of these methods: backtracking, guess-check-and-improve, or doing the same thing to both sides.



10m+2=62 10m=60 m=6

| Simplify each expression as much as possible                                  |   |
|---|---|
| 12.) $x + 7(x - 4)$<br>x + 2x - 28<br>13.) 12 $-2x + 8x$                      | -5  |
| 8x-28 $6x+$   | 7   |
| 14. Which equation has the same solution as $8x - 10 = 3(4x - 6)$ ? Circle on | - 12 7/16 / 1                                     |
| -4±5 S=16-11 A  | 1x-10-0(7×-6/<br>x-10=12x-18                      |
| 6. $4\vec{k}$   $2 = 9\vec{k} - 10$   | × -8×   |
| 15.) Which inequality has the solution of x < -6?                             | +18 +18   |
| Circle one: $x+2 > -8$<br>(a) $-2x > 12$ (c) $3x+2 > 2x-8$                    | 8 = 4×  |
| b2x > -12 d. x < 3x + 12  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \             |
| -2-2 -3× 3×<br>X < 6 -2×<13   |   |
| Graph.  |   |
| 16.) p ≥ -7   | 5 7 8 9 10 11 12 13 14 15 16 17                   |
| Solve and graph.  | 0   |
| 17.) -36 < 3w - 12 < W or W Solution:   | ^   |
| 3 <sup>3</sup><br><del>(                                    </del>            | <del>                                      </del> |
| -17 -16 -15 -14 -13 (12 -)1 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8  | 9 10 11 12 13 14 /8 16 17                         |
| 18.) 12 ≤ 3c − 6 Solution:  |   |
| 3 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6    | 8 9 10 11 12 13 14 15 16 17                       |
| 65c or<br>C ≥ 6   |   |
| C ≥ 6   |   |

