



- 1. True or false?
- a) 2a a + 5 = a + 5
- b) 3a-3+2a+4=5a+6
- 2. Here is a bar model,



Which inequality does the bar model represent?

- 3. Solve.
- a) 2a < a + 5
- b) 3a ≤ 2a + 5
- c) 4a > 2a + 10
- 4. Simplify and solve.
- a) $t + 3t \ge 20 + 2t$
- b) 4t < -20 + t + t

- 5. Solve.
- a) 3y + 2 < 2y + 10
- b) 4a 2 < 2a + 10
- c) $5t + 2 \ge 2t 10$
- 6. Simplify and solve.
- a) 5a + 2 > 2a + 10 + a
- b) $3(t+2) \le 2t+10$

7. Spot the mistake.

$$-2a \begin{pmatrix} 3a+5>2a-5 \\ -2a \begin{pmatrix} 3a+5>-2a \\ -5 \end{pmatrix} -2a \\ a > -5 \end{pmatrix} -5$$

8. Represent the inequality $3y + 9 \ge 2y + 8$ on the number line.

Answers

1. True or false?

- a) 2a a + 5 = a + 5 True
- b) 3a 3 + 2a + 4 = 5a + 6 False, 5a + 1
- 2. Here is a bar model,

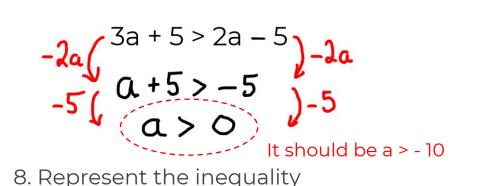
Which inequality does the bar model represent?

- 3. Solve.
- a) 2a < a + 5 _{a < 5}
- b) 3a ≤ 2a + 5 <mark>a ≤ 5</mark>
- c) 4a > 2a + 10 a > 5
- 4. Simplify and solve.
- a) $t + 3t \ge 20 + 2t t \ge 10$

b)
$$4t < -20 + t + t = t < -10$$

- 5. Solve.
- a) 3y + 2 < 2y + 10 y < 8
- b) 4a-2 < 2a + 10 a < 6
- c) $5t + 2 \ge 3t 10 t \ge -4$
- 6. Simplify and solve.
- a) 5a + 2 > 2a + 10 + a _{a > 4}
- b) $3(t+2) \le 2t+10$ $t \le 4$

7. Spot the mistake.



8. Represent the inequality $3y + 9 \ge 2y + 8$ on the number line.