





**Practice
3-5*****Equations to Inequalities***

1. Which of these situations have exactly one solution?
1. To make some cookies, John needs 4 eggs.
 2. Karen went to more than 5 baseball games last year.
 3. Last year, a teacher gave one test for each of the 8 chapters in the textbook.
 4. Some friends spent more than 3 hours playing their favorite board game.
- a) Check all that apply.
- | | |
|---|---|
| <input type="checkbox"/> A. situation 4 | <input type="checkbox"/> C. situation 1 |
| <input type="checkbox"/> B. situation 3 | <input type="checkbox"/> D. situation 2 |
- b) Check all of the situations that have more than one solution.
- | | |
|---|---|
| <input type="checkbox"/> A. situation 2 | <input type="checkbox"/> C. situation 3 |
| <input type="checkbox"/> B. situation 4 | <input type="checkbox"/> D. situation 1 |
2. Which situations can you represent with an equation?
1. Two friends live 7 blocks apart.
 2. A girl earned \$26 babysitting on Saturday night.
 3. Each class must have fewer than 23 students.
 4. The homework took 4 hours to complete.
- a) Check all of the situations that apply.
- | | |
|---|---|
| <input type="checkbox"/> A. situation 1 | <input type="checkbox"/> C. situation 3 |
| <input type="checkbox"/> B. situation 2 | <input type="checkbox"/> D. situation 4 |
- b) Check all of the situations that you can represent with an inequality.
- | | |
|---|---|
| <input type="checkbox"/> A. situation 2 | <input type="checkbox"/> C. situation 1 |
| <input type="checkbox"/> B. situation 3 | <input type="checkbox"/> D. situation 4 |
3. The restaurant can seat no more than 171 people. If p is the restaurant's capacity, which of the following inequalities models the given situation?
- | | |
|---------------------------------------|---------------------------------------|
| <input type="radio"/> A. $p \leq 171$ | <input type="radio"/> C. $p \geq 171$ |
| <input type="radio"/> B. $p > 171$ | <input type="radio"/> D. $p < 171$ |
4. Which of these situations can you represent with the inequality $x \geq 45$?
1. You must be at least 45 inches tall to go on this ride.
 2. A loaf of bread must be baked for no more than 45 minutes.
 3. You have at least 45 minutes left on a parking meter.
 4. The bill at a restaurant was no more than \$45.
- Check all of the situations that you can represent with the inequality $x \geq 45$.
- | | |
|---|---|
| <input type="checkbox"/> A. situation 4 | <input type="checkbox"/> C. situation 3 |
| <input type="checkbox"/> B. situation 1 | <input type="checkbox"/> D. situation 2 |

- A. 
- B. 
- C. 
- D. 

-
- A horizontal number line with arrows at both ends. It is marked with integers from 0 to 10. A solid black dot is placed at the number 5.

- ☐ A. exactly one ☐ B. more than one

- ☐ A. Yes ☐ B. No

- ☐ A. No ☐ B. Yes

1. a) B, C
b) A, B
2. a) A, B, D
b) B
3. A
4. B, C
5. D
6. A
7. a) Answers will vary
b) B
8. inequality, explanations will vary
9. a) Answers will vary
b) A
10. a) Answers will vary
b) A
11. A
12. B
13. D
14. an open circle
15. D