Name_____

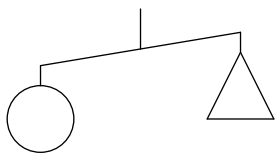# Inequalities with Hanger Diagrams
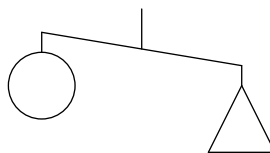
Date_____ Period____

An unbalanced hanger diagram is provided. Which shape weighs more, a circle or a triangle? If it's impossible to tell, write 'impossible to tell.'
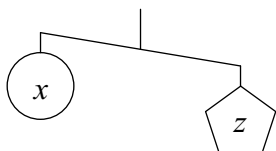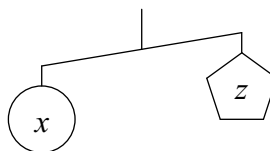
1)

2)

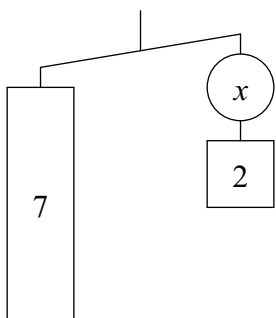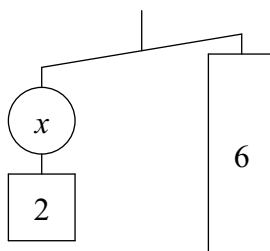**Write an inequality that matches the unbalanced hanger diagram.**

3)

4)

Write an inequality that matches the unbalanced hanger diagram. Then write the solved inequality.
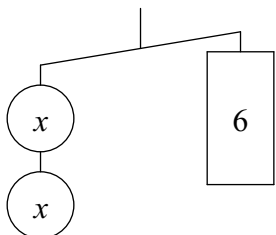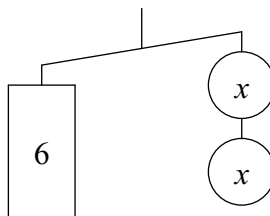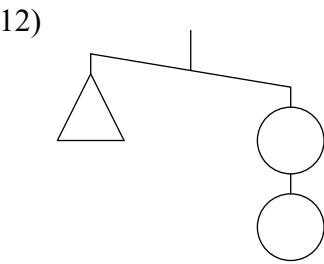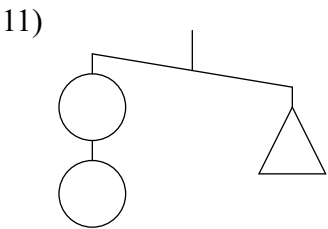
5)

6)

7)

8)

An unbalanced hanger diagram is provided. Which shape weighs more, a circle or a triangle? If it's impossible to tell, write 'impossible to tell.'

9)

10)

11)

12)

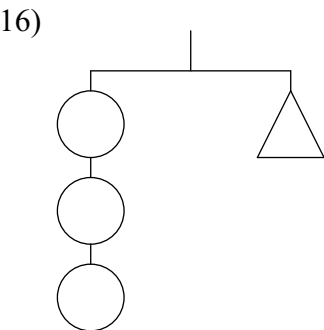**A balanced hanger diagram is provided. Which shape weighs more, a circle or a triangle? If it's impossible to tell, write 'impossible to tell.'**

13)

14)

15)

16)

Name_____
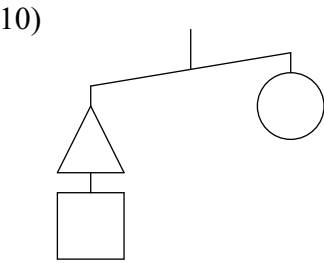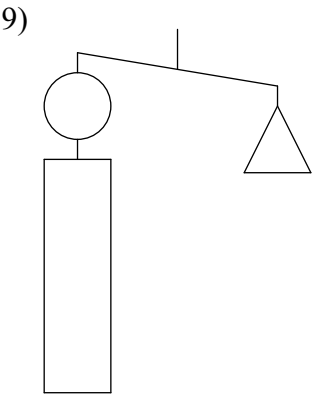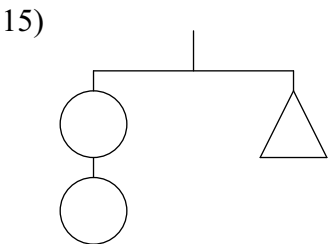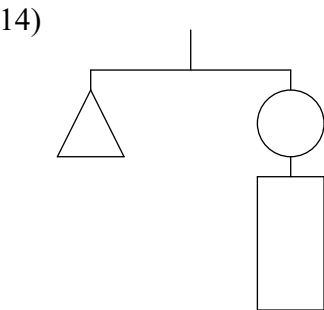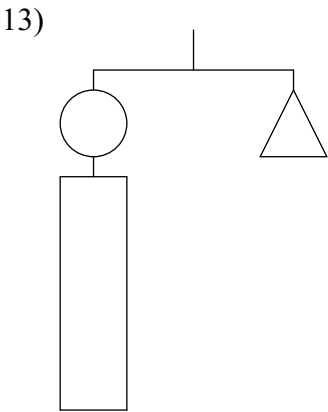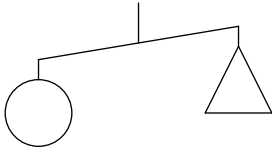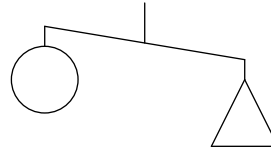
Inequalities with Hanger Diagrams

Date_____ Period_____

An unbalanced hanger diagram is provided. Which shape weighs more, a circle or a triangle? If it's impossible to tell, write 'impossible to tell.'

1)

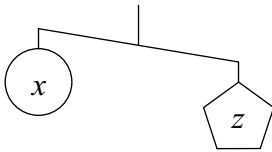A circle weighs more than a triangle.
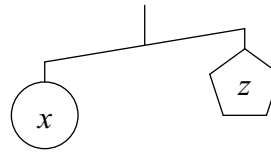
2)

A triangle weighs more than a circle.

Write an inequality that matches the unbalanced hanger diagram.
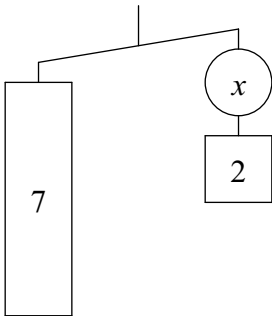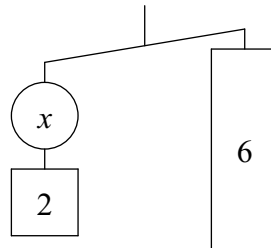
3)

$x < z$

4)

$x > z$

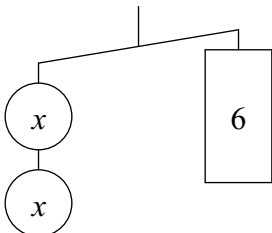**Write an inequality that matches the unbalanced hanger diagram. Then write the solved inequality.**
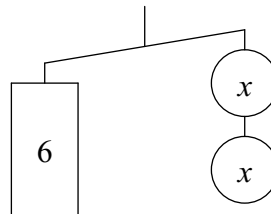
5)

From diagram: $7 > x + 2$
Solved: $x < 5$

6)

From diagram: $x + 2 > 6$
Solved: $x > 4$
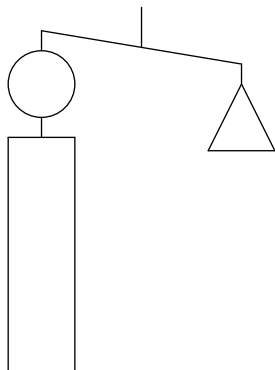
7)

From diagram: $2x > 6$
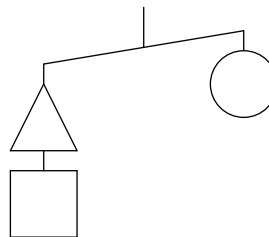Solved: $x > 3$

8)

From diagram: $6 > 2x$
Solved: $x < 3$

An unbalanced hanger diagram is provided. Which shape weighs more, a circle or a triangle? If it's impossible to tell, write 'impossible to tell.'
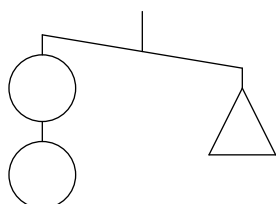
9)

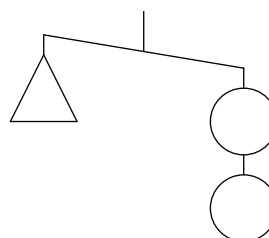A triangle weighs more than a circle.

10)

impossible to tell

11)

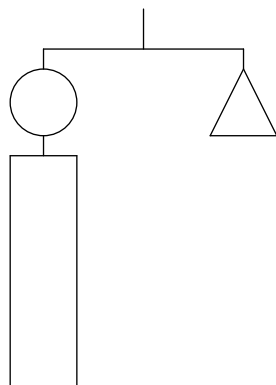A triangle weighs more than a circle.
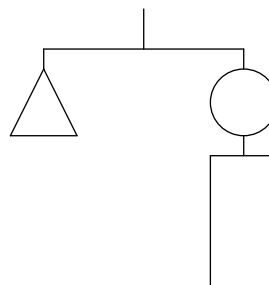
12)

impossible to tell

A balanced hanger diagram is provided. Which shape weighs more, a circle or a triangle? If it's impossible to tell, write 'impossible to tell.'
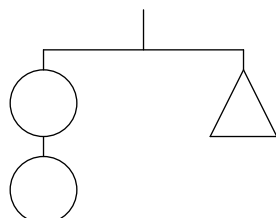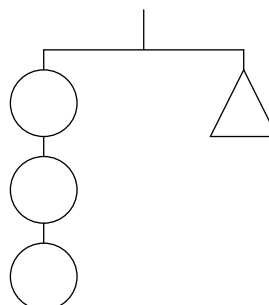
13)

A triangle weighs more than a circle.

14)

A triangle weighs more than a circle.

15)

A triangle weighs more than a circle.

16)

A triangle weighs more than a circle.