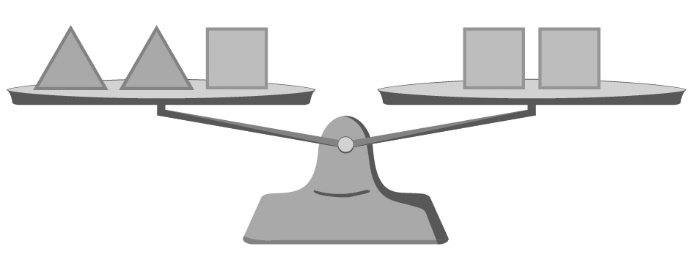
**Connections: Balance Puzzles**

**Master 31a**

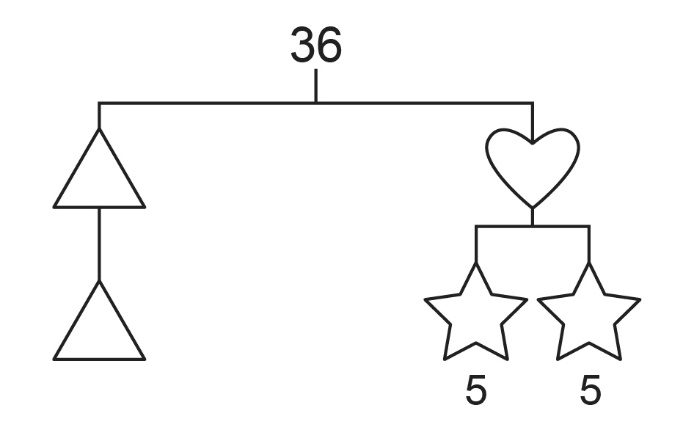
Do you like to do puzzles?  
Have you ever tried a balance puzzle?

When things are balanced, the quantities on both sides are equal.

What do you know about the shapes on this pan balance?



A triangle has a mass equal to one-half the mass of a square.

What do you know about the shapes on this balance mobile?

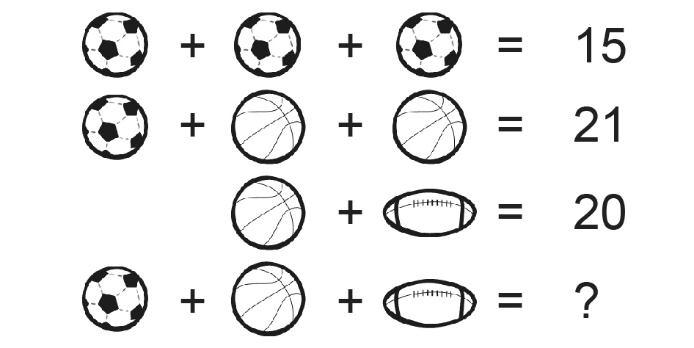
The whole mobile represents 36.  
What does each side represent?

Find what each shape represents, given that a star is 5.

**Connections: Balance Puzzles**

**Master 31b**

Solve this puzzle.



Try making a balance puzzle of your own.  
Then trade puzzles with a classmate and solve each other’s puzzles.