

Math Challenge #10



First Name: _____
 Last Name: _____
 Grade: _____
 Teacher: _____

Balance Scale Problems

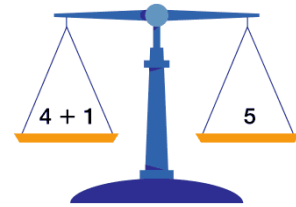
Math challenge 10 problems work the same way as balancing a scale—one side has to equal the other. Try this fun challenge and turn in your answers by **February 23, no later than 3 p.m.** Four winners will be randomly selected to win a binocular. Winners will be announced on February 28, 2012.

Kinder, First, and Second Grade: solve at least 6 picture problems

Third and Fourth Grade: solve at least 10 picture problems

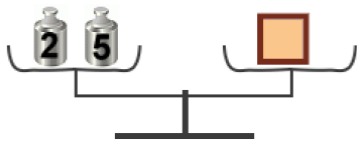
Fifth and Sixth Grade: solve at least 13 picture problems

*Remember, completing more problems than required helps maintain your eligibility for a prize in case you have any incorrect answers.

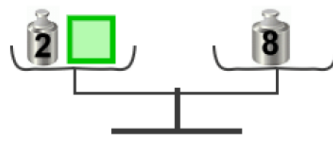


Hint: If you take away the same amount from both pans the scale will stay balanced. Adding the same amount to the both pans will keep scale balanced too. Use this trick to solve how much each geometric shape "weighs".

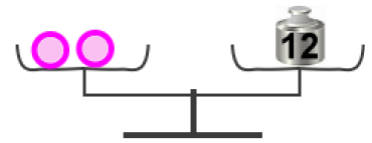
PICTURE PROBLEMS:



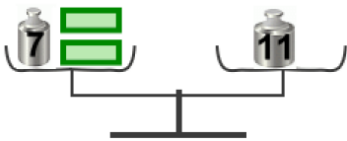
1. The square weighs _____



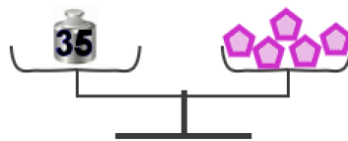
2. The square weighs _____



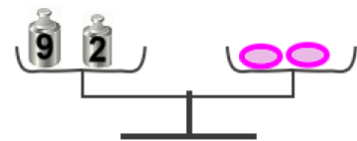
3. One ball weighs _____



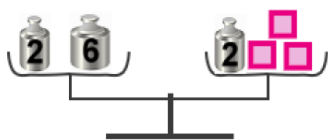
4. One rectangle weighs _____



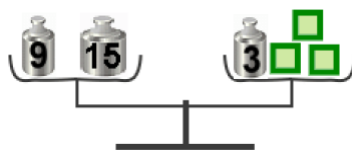
5. One pentagon weighs _____



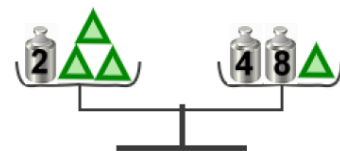
6. One oval weighs _____



7. One square weighs _____

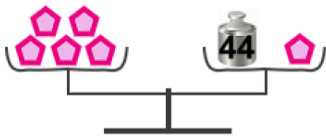


8. One square weighs _____

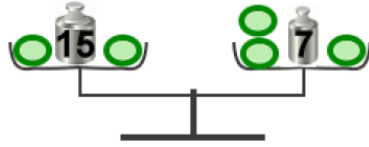


9. One triangle weighs _____

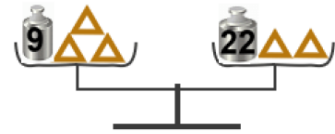




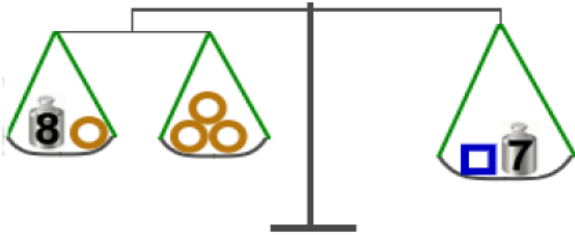
10. One pentagon weighs _____



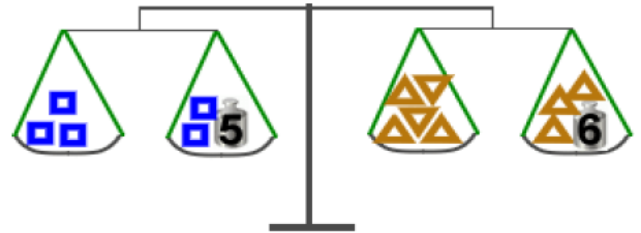
11. One oval weighs _____



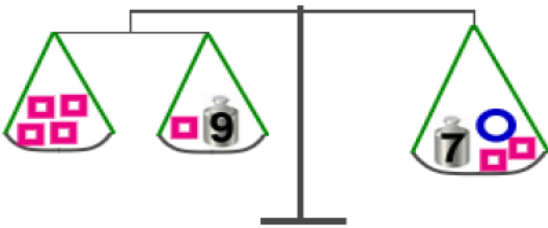
12. One triangle weighs _____



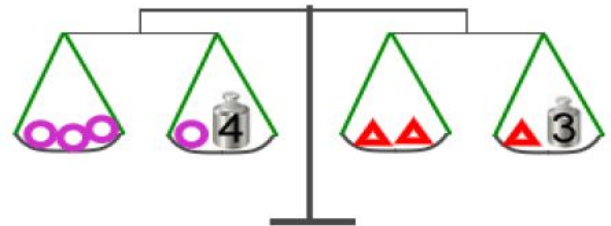
13. One circle weighs _____; one square weighs _____



14. One square weighs _____; one triangle weighs _____



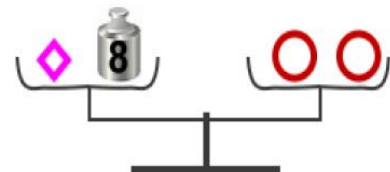
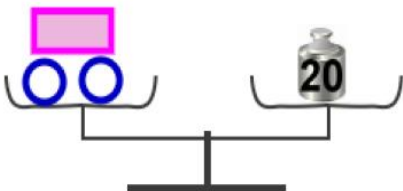
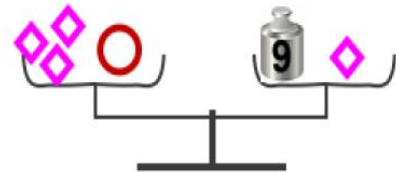
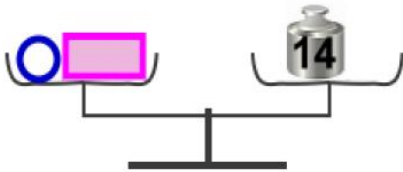
15. One circle square _____; one circle weighs _____



16. One circle weighs _____; one triangle weighs _____

Extension:

These are trickier. Use *both* balances to figure out the *two* unknown shapes.



One rectangle weighs _____
One circle weighs _____

One circle weighs _____
One diamond weighs _____

