Scales Problems



1. Solve how much each geometric shape "weighs". You can use either pounds or kilograms.





2. Solve.



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



4. A few more with double scales...





5. Find the unknown number that goes on the empty line.

a. 78 + = 148	b. $7 + 6 + 6 = \10$	c. $2 \times 50 = 40 + $
160 = + 90	$5 + 5 + 5 + __= 2 \times 12$	$7 \times 6 = 2 \times $
50 = 32	$16 + 19 = 2 \times \underline{\qquad} + 1$	$4 \times 6 - 7 = 2 \times \underline{\qquad} + 1$

On the next page you will find empty scales pictures. You can print out the page and devise your own problems. But be careful! If you just make random problems, the solutions are likely to be fractions. See also:

Balance word problems from Math Kangaroo

<u>http://www.mathplayground.com/algebraic_reasoning.html</u> - weighing scales game that practices algebraic reasoning <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=33</u> - an interactive pan balance with shapes.

















