



Math Fundamentals PoW

The Math Forum's Problems of the Week provide non-routine constructed response problems. The Math Fundamentals problems target concepts typically learned in grades 3-5. Memberships and mentoring options are available at the individual, class, school, and district levels.

Sports Weigh In - posted April 20, 2009

The Math Club at Dawn's school had a Math Carnival. At her booth Dawn set up three scales with baseballs, tennis balls and soccer balls, as shown in the picture below. Contestants tried to determine the weight of each kind of ball.



How much does each kind of ball weigh?

Explain how you solved it. Show how you know you are correct.

[Assume that all the soccer balls weigh the same, all the baseballs weigh the same, and all the tennis balls weigh the same.]

Extra: Find all the other combinations of these kinds of balls that would weigh 22 ounces. Explain how you found them and how you know you have found them all.

<http://mathforum.org/pow/>

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