Division Dilemmas

Ashley, James, and Zoe are talking about how they solve division problems. They use Ashley's problem.
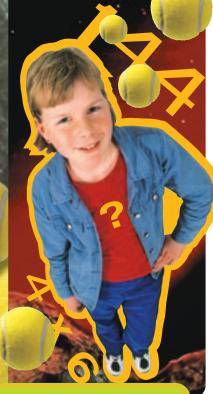
How many 6-packs can be made with 144 tennis balls?

That's 144 divided by 6, right? How would you do that?

It's not one of my basic facts! I think I'll try estimation.

$144 \div 6$

$72 \div 3$

20 x 6 is 120. That leaves 24. 4 x 6 is 24, so you can fill 20 plus 4 packs.

144 ÷ 6 has the same answer as 72 ÷ 3. Is that easier?

20 x 6 is 120, so the answer is 20 something. What times 6 gives 4 in the ones place? 4 does! The answer is 24.

1. Using equipment or pictures, show a classmate how each of these strategies works.

2. Use Ashley's, James's, and Zoe's strategies, or your own, to solve the problems below.
   a. There are 8 Mighty Munch biscuits in a packet. You buy 248 biscuits. How many packets is that?
   b. Tammy heard on the radio that it was only 133 days to Christmas. How many weeks was that?
   c. For the gala, Andrew needs to buy 444 eggs for the egg-catching competition. How many dozen should he buy?
   d. CDs are on special for $9 each. You spend $216 on music for your school disco. How many CDs do you buy?
   e. 133 players turn up for the basketball tournament. They are put into teams of 5 players. How many teams is that?