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| **Subject:** | Mathematics |
| **Title:** | Hockey Store |
| **Grade Level:** | 4 |
| **Purpose:** | Students will use a repertoire of math strategies to solve multiplication problems and by using decimals up to the hundredths column. |
| **Curricular**  **Connections:** | Describe and apply mental mathematics strategies, such as:   * skip counting from a known fact * using doubling or halving * using repeated doubling to determine basic multiplication facts to 9 × 9 and related division facts   Represent and describe decimals (tenths and hundredths), concretely, pictorially and symbolically. |
| **Materials:** | * Book or poster/pictures that show various hockey equipment. * blank paper – one per pair of students * construction paper (9x12) –one per pair of students * glue sticks * Variety of math manipulatives that students can utilize while solving math problems such as counters, cube links, ten frames, two part mats, number lines, hundred charts * Blank paper (for extension activity) |
| **Activity:** | Brainstorm hockey equipment to protect various body parts. During lesson can look at hockey book/magazine to help students. Can also Display a Hockey Equipment Poster/picture   1. As a class generate a list of hockey equipment. Record responses student generate. 2. Model to students how you would create a price list.   **Example: Dot’s Sporting Goods**   * Elbow pads $2.50 * Shoulder pads $55.00 * Helmet $92.50   + - * Skates $225.99   (Other equipment: hockey stick, shin pads, gloves, jersey and socks, etc.)   1. Working in pairs, have students come up with a name for their store. 2. Go over the place value chart, from hundreds column to the one hundredths column. 3. Have each pair of students create a price list for various pieces of hockey equipment. Remind students they can look at class list. Tell students they need to keep the prices of the items at their store under from the $1.00 – $500.00 price range. Make sure the students are using decimals to the one hundredth. 4. Have students paste their price lists onto coloured construction paper. 5. Post price lists around the classroom. 6. Explain to students that they are now going to be customers and that they are going to visit different stores and decide what they are going to purchase at each store. 7. Tell students that they need to purchase a minimum of two things from each store and solve how many dollars they will need to purchase those two items. 8. Have students go around the room and write down the equipment they will purchase and from which store. 9. Using multiplication, students will figure out how much it would cost team Canada to fully equip their national teams. Example, multiply jersey cost by number of players. ($25.50 X 20 players) etc. |
| **Extension:** | * Students can continue this activity by designing and sketching their hockey store. * Give students a budget to work with. |
| **Assessment:** | Anecdotal: How well are students explaining how they solved for their answers.  Product: Students will hand in their work. Showing place value chart and multiplication (steps). |