School Store

Common Core Standard

6.NS.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.

The Task

The SGA has decided to offer new materials for students to purchase. This year, students can purchase an assortment of colored markers, erasers, pencils, stickers, and pens.

	Single	Pack
Assorted Colored Markers	$0.76 per marker	$ 4.56 for 6 markers
Erasers	$0.15 per eraser	$ 0.75 for 6 erasers
Pencils	$1.00 per pencil	$ 5.45 for 6 pencils
Assorted Stickers	$1.05 per sleeve	$ 6.00 for 6 sleeves
Assorted Pens	$1.20 per pen	$ 6.85 for 6 pens

The McKinnize family has a budget of $50.00 to buy supplies from the school store for their 3 children. Below is a list of supplies each child needs to purchase for the year.

1. Sophia needs 4 pencils, 2 erasers, and one colored marker. How much money will she need to spend?
2. James needs 11 pens, 2 colored markers, 1 pencil, and 1 eraser. How much will he need to spend?
3. Anthony needs 10 sleeves of stickers, 9 pencils, 6 erasers, and 7 colored markers. How much will he need to spend?
4. The McKinnize children have decided to give the change to Sophia. Using the rest of the money, what is the greatest number of supplies Sophia could buy?

Facilitator Notes

1. Introduce the task to the students. Allow students a few minutes to read the task.
2. Consider showing students the school supply list for the current school year and past years.
3. Have students work in pairs to find the cost for the school supplies.
4. Circulate to monitor students' work. Ask students how they decided to find the amount for each child, etc.
5. Provide students with visuals of the supplies, fake money, paper and any other materials.

Follow-Up Questions

1. Extension: Mrs. McKinnize has decided that to combine all of the students' supply lists into one sheet.
   - How many pencils does the family need altogether?
   - Erasers?
   - Markers?
   - Stickers?
   - Pens?
2. How much money will Mrs. McKinnize need for the combined supply list?
3. Is Mrs. McKinnize saving money by combing the children's supply list?

Solutions

1. Sophia will spend $ 5.06 if the supplies are bought as singles.
2. $ 15.52 if James bought 1 pack of pens, 5 single pens, 2 single markers, 1 single pencil, and 1 single eraser.
3. $24.72 if Anthony bought 1 pack of stickers + 4 singles, 1 pack of pencils + 3 singles, 1 pack of erasers, and 1 pack of markers + 1 single marker.
4. Answers may vary. Students should explain how and why they chose the items they did. Total money spent: $45.30; money leftover: $4.70

	Total Number	Total Cost
Assorted Colored Markers	10	$ 7.60
Erasers	9	$ 1.20
Pencils	14	$ 12.90
Assorted Stickers	10	$ 10.20
Assorted Pens	11	$12.85
	Total Cost:	**$44.75**

Mrs. McKinnize is saving $0.55 by combing the supply lists for her children.