**WEEK 4 – Shopping List**

**Grade:** Intermediate (7-8)

**Unit:** Number

**Curriculum Expectation**
use the properties and order of operations, and the relationships between operations, to solve problems involving … rates

**SEL:** make connections between math and everyday contexts to help them make informed judgements and decisions

**Activity
1)** Students will use a budget of $100 to plan out their groceries to allow them to eat for as long as possible and avoid the grocery store to allow for social distancing. **2)** Students will research their favourite food items from the grocery store to create a balanced diet .
**3)** Students will find two different sizes or two different brands of each item that they want to buy. They will record the cost of both items and the size of the item that is being purchased.
**4)** Students will need to compare the cost per unit of each brand or size and determine which item is the most cost effective. Students will repeat this for at least 10 different sizes or brands.
**5)** Once completed, each student will fill out the budget with the cost per unit, how many units they will buy and the total cost of these items. They will budget out what they want to buy to last a week getting as close to $100 as possible without going over.
**Note:** If access to a computer is unavailable, students can use the pre-made grocery list in place of creating their own. Follow the rest of the steps as usual.

**Check for Understanding**
I can determine which item is cheaper when calculating unit cost
I could successfully add and subtract money amounts including decimal numbers
I was able to estimate which items I could afford with a set total of $100

**Materials**
Recording sheet (attached below), pencil, computer access/ filled in item sheet, calculator (for multiplication) imagination!

**Pre-Filled Grocery Store Costs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Cost of Brand 1**  | **Unit cost for Brand 1 (per 100g, 1kg, 1 litre etc.)** | **Cost of Brand 2**  | **Unit cost for Brand 2 (per 100g, 1kg, 1 litre etc.)** | **Which is the better deal?** |
| Chicken | $25 per 12 breasts |  | $14 per 5 breasts |  |  |
| Celery | $2 per 1 kg |  | $5 per 2 kgs  |  |  |
| Quinoa | $18 per 2.5kgs |  | $8 per 1.5kgs |  |  |
| Rice | $12 per 1kg |  | $3.81 per 300 grams |  |  |
| Strawberries | $7 per 400 grams |  | $5.50 per 200 grams |  |  |
| Apples | $2.52 per kg |  | $0.52 per 250 grams |  |  |
| Soda | $1.50 per litre |  | $2.25 per 2 litres |  |  |
| Milk | $4.49 per 4 litres |  | $2.50 per 2 litres |  |  |
| Chocolate Bars | $1.25 per bar |  | $4.75 per 4 bars |  |  |
| Pie | $14.50 per 8 slices |  | $22 per 12 slices |  |  |

**Your Grocery List**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Cost of Brand 1**  | **Unit cost for Brand 1 (per 100g, 1kg, 1 litre etc.)** | **Cost of Brand 2**  | **Unit cost for Brand 2 (per 100g, 1kg, 1 litre etc.)** | **Which is the better deal?** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Grocery shopping budget (use as many spaces as you need)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item name** | **Cost per unit** | **Number of units you will buy** | **Cost per unit before tax** | **Total cost (add tax for any junk food; cost x 1.13)** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Total Cost (max $100):**