Coffee Shop Maths Investigation
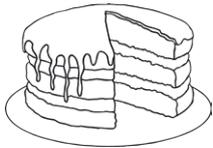
I can calculate with money.

Tea at Twinkl

coffee 80p

tea 55p

hot chocolate £1

cake £1.20

muffin 90p

cookie 50p

Four people visit Tea at Twinkl to buy a drink and item of food each.

1. What is the most and least they could spend?
   Most: _____
   Least: _____

2. They buy the same drink and the same item of food for each person for exactly £8. Which items did they buy? _____

3. The four people find they have lost £1 so only have £7 altogether. They want to buy the same drink and the same item of food for each person for exactly £7.
   Which items could they buy?

   _____

Coffee Shop Maths Investigation

I can calculate with money.
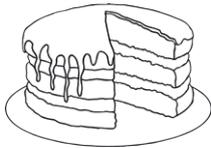
Tea at Twinkl

coffee £1.20

tea 95p

hot chocolate £1.45

cake £1.75

muffin £1.10

cookie 75p

Four people visit Tea at Twinkl to buy a drink and item of food each.

1. What is the most and least they could spend?

Most: _____

Least: _____

2. The four people have £10 altogether.
   a. What is the most they can spend if they buy the same drink and the same item of food each?
   _____

   b. Each person has to buy one drink and one item of food, but can buy anything from the menu. What could they buy to get the least amount of change from £10?
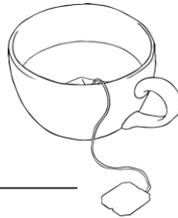   _____

Coffee Shop Maths Investigation

I can calculate with money.
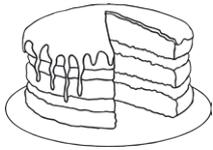
Tea at Twinkl
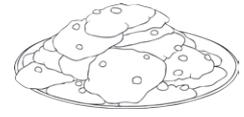
coffee _____   tea _____   hot chocolate _____

cake _____   muffin _____   cookie _____

Tea at Twinkl sells coffee, tea and hot chocolate, cake, muffins and cookies.

The table below shows the making cost of each item. A total profit of £150 needs to be made each day to pay for staff and other costs. Estimate the number of each drink or food item sold each day and calculate the prices that need to be charged.

Item	Cost to make	Price	Profit per sale	Number sold	Total profit per item
Coffee	25p				
Tea	20p				
Hot Chocolate	50p				
Cake	60p				
Muffin	35p				
Cookie	30p				
				Total _____	

Challenge

Create a spreadsheet which will calculate the profit for different prices and numbers sold.

Coffee Shop Maths Investigation **Answers**

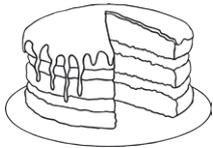I can calculate with money.

Tea at Twinkl

coffee 80p

tea 55p

hot chocolate £1

cake £1.20

muffin 90p

cookie 50p

Four people visit Tea at Twinkl to buy a drink and item of food each.

What is the most and least they could spend?
Most: **£8.80**
Least: **£4.20**

1. They buy the same drink and the same item of food for each person for exactly £8. Which items did they buy? **Coffee and cake.**

2. The four people find they have lost £1 so only have £7 altogether. They want to buy the same drink and the same item of food for each person for exactly £7.
Which items could they buy?
Tea and cake.

Coffee Shop Maths Investigation **Answers**

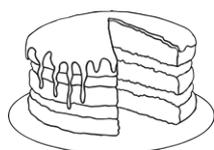I can calculate with money.

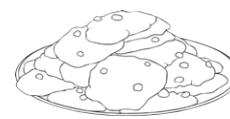**Tea at Twinkl**

coffee £1.20

tea 95p

hot chocolate £1.45

cake £1.75

muffin £1.10

cookie 75p

Four people visit Tea at Twinkl to buy a drink and item of food each.

1. What is the most and least they could spend?
   Most: **£12.80**
   Least: **£6.80**

2. The four people have £10 altogether.
   a. What is the most they can spend if they buy the same drink and the same item of food each?
   £9.20 coffee and muffin.

   b. Each person has to buy one drink and one item of food, but can buy anything from the menu. What could they buy to get the least amount of change from £10?
   2 coffees, 2 hot chocolates, 1 cake, 2 muffins, 1 cookie.