Smarties Fractions

Name: _____ Date:_____

TASK 1

You have been given a tube of Smarties.
Do not eat them.

Follow the steps below and answer the questions to discover what kind of fractions you can make.

Step 1: How many Smarties do you have in total?
        This number is the **DENOMINATOR** (or whole)

Step 2: Group the sweets by colour to work out the fraction of each
        colour in the tube.
        This number is the **NUMERATOR** (or part).

For example: 25 Smarties in the tube, 6 Smarties are red

So the fraction of red Smarties is 6   **NUMERATOR**
                                    25   **DENOMINATOR**

Colour	Numerator How many of each	Denominator How many Smarties in total	Fraction Created
Pink			
Blue			
Red			
Yellow			
Green			
Brown			
Orange			
Purple			

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TASK 2

ADDING AND SUBTRACTING FRACTIONS

RULE: TO ADD OR SUBTRACT FRACTIONS THE DENOMINATORS MUST BE EQUAL

As the fractions you created on your chart each have the same denominator, the denominator remains the same and you simply add the numerators together.

For example: $\frac{6}{25} + \frac{7}{25} = \frac{13}{25}$

What you need to do:

Look at the fractions you created on your Smarties chart and add the following fractions together.

1. Blue + Red

2. Yellow + Green

3. Orange + Purple

4. Brown + Orange

5. Green + Blue

6. Pink + Yellow

7. Red + Brown

8. Purple + Pink

Ask you tutor about simplifying fractions.

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TASK 3

Now answer these problems.
The denominators must the same before you can add or subtract fractions.
Ask your tutor if you do not know how to change the denominator.

$\dfrac{1}{3} + \dfrac{3}{4} =$	$\dfrac{1}{2} + \dfrac{2}{3} =$	$\dfrac{7}{10} - \dfrac{2}{5} =$	$\dfrac{3}{4} - \dfrac{1}{2} =$

Now try these

A garden has an area of $\dfrac{1}{5}$ of an acre. The owner buys an extra $\dfrac{1}{3}$ of an acre to increase the size of his land.

What is the new size of the garden?

A large company makes a profit of £$\dfrac{3}{4}$ million in one year and £$\dfrac{2}{3}$ million in the next year.

What is the total profit for the 2 year period?

If the company had made a loss of $\dfrac{2}{3}$ million in one year would they have made a profit or loss over the 2 year period?