

Smarties Math Challenge

Name _____



Here's your box of Smarties.

Do you feel smart enough to complete this challenge?

1) Estimate the number of Smarties you think are in the box? _____

2) Count the Smarties and fill in this tally chart

| | TALLY |
|---------------|-------|
| Red | |
| Green | |
| Purple | |
| Orange | |
| Brown | |
| Pink | |
| Blue | |
| Yellow | |

3) What is the actual number of Smarties in your box?

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

4) What is the difference between your estimate and the actual number?

Total _____ - Estimate _____ = Difference _____

5) Make a bar graph to show the number of Smarties of each colour in your box

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| | | | | | | | |
| Red | Green | Purple | Orange | Brown | Pink | Blue | Yellow |

6) If you were to close your eyes and pick one Smartie, what colour would you most likely get? _____

7) Try it. What colour did you pick? _____

8) Did the colour you picked match your prediction? Why or why not? _____

9) What is the probability of picking a blue Smartie? _____

10) Make a design with the Smarties that has one line of symmetry.

11) Make another design with one line of symmetry.

12) If you wanted to share your pack of Smarties with three friends, how many Smarties would each person get? Are there any leftovers?

13) I want to use this pack of Smarties to make Traffic Light cookies. Each biscuit has a red, a green and an orange Smartie on it. How many Traffic Light biscuits can I make with this pack of Smarties?

14) I take a Smartie at random from the pack. What is the probability that it is:

red _____

green _____

pink _____

purple _____