**NUMBER OF NINES**

How many times would you write the digit 9 if you were to write all of the numbers from 1 to 500?

**DARTS**

Using the dart board how many different ways can you think of that I can score 21 by throwing 3 darts?

HINT: You can hit the same number more than once but don’t record the same numbers in a different order.
SAME DIGITS

Use the symbols $+, -, \times$ or $\div$ and the numbers to do the following.

EXAMPLE: Make five twos equal forty-four. Answer: $22 \times 2 + 2 - 2 = 44$

- Make five twos equal thirty.
- Make six threes equal ninety.
- Make six sevens equal forty-nine.
- Make six fives equal twenty-six.

SEVENS AND NINES

How many numbers from 1 to 1000 contain both a 7 digit and a 9 digit?

HINT: Some numbers contain more than just one of each digit, e.g. 979, so these numbers should also be included.
BLACK, WHITE AND RED
I have 6 black marbles, 4 white marbles and 3 red marbles in a bag.
What is the least number of marbles that I can take out of the box to ensure that I get at least three of one color?

ICE CREAM SUNDAE
Claire is making an ice cream sundae. She is allowed 3 scoops of ice cream. She can choose from 5 flavors – lime, chocolate, vanilla, rocky road and strawberry.

How many possible ice cream combinations could she choose?
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Brain Teaser Answers

Number of Nines
Answer - 100 times.

Darts
Answer - 5 different ways -
3, 7, 11
3, 9, 9
5, 5, 11
5, 7, 9
7, 7, 7

Same Digits
One possible solution is given for each
2 x 2 x 2 + 22 = 30
3 x 33 - 3 - 3 - 3 = 90
7 x 7 - 7 - 7 + 7 + 7 = 49
55 ÷ 5 + 5 + 5 + 5 = 26

Sevens and Nines
54 numbers

Black, White and Red
7 marbles

Ice Cream Sundae
10 combinations

Squares
23 squares - (14 -1 x 1, 7 - 2 x 2, 2 - 3 x 3)