

Math Superstars

Hopefully Helpful Hints

Week 3

Welcome to the exciting world of mathematics

1st Grade



- #1 Try counting up from 9 to get 12
- #2 Make sure each side is 3 “dots” long
- #3 Add birds and fish- then subtract from dogs
- #6 Use each digit only once

2nd Grade



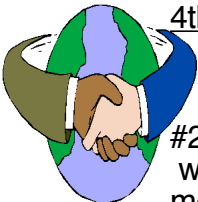
- #1 Notice that the scale is balanced, so the number of apples should be equal
- #3c Count all the games won and then divide them evenly between the 4 teams
- #5 25 cents is equal to 0.25
- #6 You may need to buy more markers than you need to make sure each student gets one

3rd Grade



- #3 Either add 7 three times ($7+7+7$) or 3 seven times ($3+3+3+3+3+3+3$)
- #5 The numbers change each day by adding one more than you added the day before: from Mon to Tues, 2 bugs were added; from Tues to Wed, 3 bugs were added; from Wed to Thurs, 4 bugs were added...
- #6 Label teams 1-5; Team 1 plays Teams 2, 3, 4, 5 (4 games); Team 2 plays Teams 3,4,5 (3 more games)...
- #7 Start with the largest coin that does not exceed 42 cents- this is the quarter

4th Grade



- #1 A square number is the result of a number times itself- $1 \times 1 = 1$, $2 \times 2 = 4$...
- #2 The ratio $48/60$ is the same as $24/30$ and $12/15$, and $4/5$. If you use the 4 to 5 ratio, which means 4 pieces of candy and 5 pieces of gum for each bag, this would give him the most number of bags (figure 9 pieces per bag to reach 108 total pieces)
- #6 64 golfers play, then the 32 winners play, then the 16 winners play, then the 8 winners play, then the 4 winners play, then the final 2 play. This is the number of matches in which the winner must play (part a). Part b: The number of golfers who lost a match is the same number of games played.

5th Grade



- #2 Notice that each horseshoe is worth 3 students (not 1)
- #3 Figure out $1/4$ of 100 and then use what is left for the rest of the problem.
- #4 Unfortunately, this is a guess and check type problem!
- #7 Look for a pattern with **1** (1st group), **4** (2nd group of 3 added to 1st grp), **9** (3rd group of 5 added to 2nd total), and so on.