

Elementary School Math Problems

Here are some challenging problems to try with your elementary school student:

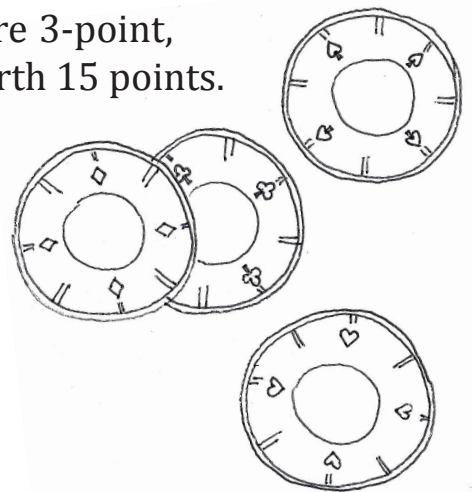
Grades K-1:

- 1 a.** A giraffe went on a hike. The first day he walked 29 miles. The next day he walked another 38 miles. How many miles did he walk altogether?



- 1 b.** On the first day the giraffe walked X miles. On the next day he walked another Y miles. How many miles did he walk altogether?

- 2** Jane fills a bag with three types of chips. There are 3-point, 4-point and 7-point chips. Jane picks 3 chips worth 15 points. Which chips did she pick?



- 3 The Russian School of Mathematics had an apple-eating contest. Read all the clues. Then write the correct names next to the number of apples he or she ate.

Sarah ate the most apples

Natalie ate 10 less than Sarah

Taylor did not eat more than Natalie

Nina ate more than Natalie but less than Tomer

	Name	Apples Eaten
A.	_____	16
B.	_____	12
C.	_____	10
D.	_____	6
E.	_____	4



Grades 2-4:

4 Look at the following pattern:



a. Draw the 17th figure in the pattern



b. Draw the 34th figure in the pattern.



c. Draw the 403rd figure in the pattern.



d. Explain how to find the n th figure in the pattern.

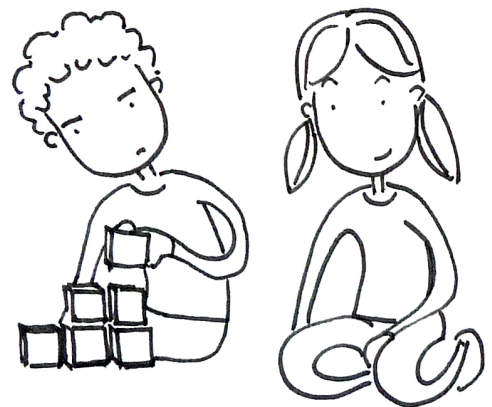
5 I know two times as many jokes as my friend. We know 60 jokes altogether, but there are three jokes that we both know. How many jokes do I know? How many jokes do I know that my friend doesn't?

6 I thought of a number. My friend also thought of a number. One third of my number is one half of my friend's number.

a. Give an example of what my number could be and what my friend's number could be.

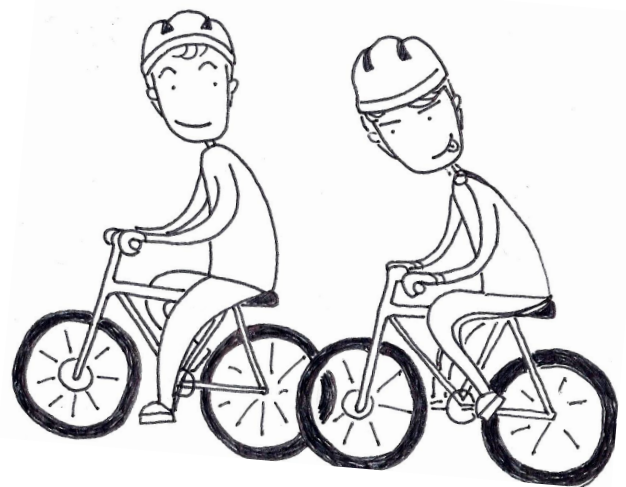
b. Can our numbers be equal?

7 Jane watched her brother Peter build something that looked like stairs out of blocks. He put a block, then a tower of 2 blocks next to it, then a tower of 3 blocks... If he continues the pattern, how tall will the tallest tower be if there are 200 blocks in the kit?



Grades 4-5:

8 Three cyclists started biking around a circular track at the same time. The first completes the loop every 21 minutes. The second finishes a loop every 35 minutes and the third takes 15 minutes. How many minutes after they start will they all be together again at the starting point?



9 Calculate:

$$\frac{2010 - 2009 + 2008 - 2007 + \dots + 2 - 1}{2010 \cdot 45 + 55 \cdot 2010}$$