

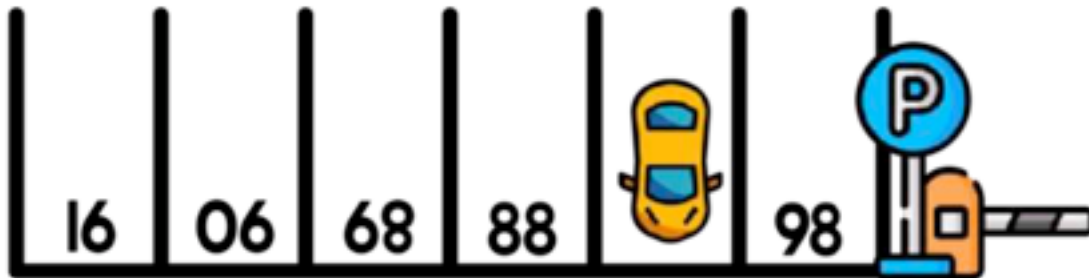
Name: \_\_\_\_\_

# 9 LIVES MATH RIDDLES!



**Directions:** Can you solve all 9 math riddles and logic puzzles below?

- 1.) Josie has 24 pet cats. One night, she left the back door open and all but 8 of her cats ran away. How many of her cats did *not* run away?
- 2.) You probably already know that the expressions  $2+2$  AND  $2 \times 2$  both equal 4. Can you find a set of **THREE** different whole numbers whose sum *and* product are equal?
- 3.) What is the number of the parking spot occupied by the car in the diagram below?



- 4.) How can you add eight 6s together so that the total adds up to 750?
- 5.) What is the smallest **whole number** that is equal to seven times the sum of its digits?
- 6.) What value do you get when you multiply all of the digits on a telephone's number pad?

7.) There are several books on a bookshelf. If one book is the 6<sup>th</sup> from the left and the 8<sup>th</sup> from the right, how many books are on the shelf?

8.) What is the smallest number that increases by 12 when it is flipped *and* turned upside down?

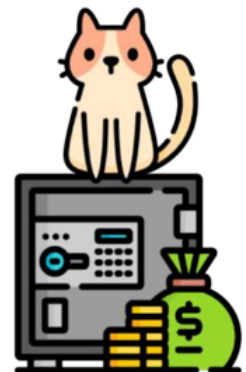
9.) In Mrs. Miller's last will and testament...

She leaves half of her money to her cat, Maggie, and half that amount to her dog, Chop Chop.

She leaves a sixth to her goldfish, Bruno.

And she leaves the remainder of her money, \$1,000, to her parakeet, Philomena.

How much money is she leaving in total?



Bonus: How many times can Friday the 13<sup>th</sup> occur in one calendar year?



Key:

- 1.) 8
- 2.) 1, 2, and 3 ( $1+2+3=6$  and  $(1)(2)(3)=6$ )
- 3.) 87 (flip the diagram upside down!)
- 4.)  $666 + 66 + 6 + 6 + 6 = 750$
  
- 5.) 21 (because  $2+1=3$  and  $7(3)=21$ )
  
- 6.) 0 (because anything times zero equals zero)
- 7.) 13 Books
- 8.) 86
- 9.) She left \$12,000. One half plus one quarter plus one-sixth equals eleven-twelfths. So, the remainder, \$1,000, is one-twelfth of the whole, which must have been \$12,000.

Bonus: Three times. For example, in 2015, Friday the 13<sup>th</sup> occurred in February, March, and November.