

Student Name: _____

Grade: _____ Date: _____



1. Which number between 60 and 70, written in figures, increases by 21 when turned upside down?

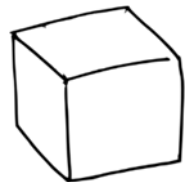


2. A magazine called "THE BIG ISSUE" sells around Australia for \$7. It's sold on street corners by people who are disadvantaged in some way. Some are homeless or poverty-stricken, and so on. Each seller buys the magazines for \$3.50 each, and keeps the profits made. How many copies must he/she sell to make a \$70 profit?

3. There were 13 cars lined up one behind the other at the traffic lights. How many cars had an odd number of cars in front and behind them?

4. What number comes next in this series: 1.20, 0.60, 0.30, 0.15, ___?

5. James has a lot of cube-shaped boxes, each with a side length of 3 cm. How many of these boxes can be placed in a cardboard box that measures 12 cm x 9 cm x 6 cm?



6. A boy in China made a 1.8 metre Lego model of Nick Wilde, the fox in the movie "ZOOTOPIA". It took 3 full days to make. It was on display for just 1 hour before a 5-year-old knocked it down. What fraction of the time it took to build was it on display before being wrecked?

7. Australia's most-expensive-ever "gourmet" hot dog has arrived. It costs \$100. It contains the best beef sausage, with special wine and mustard. A "normal" hot dog costs \$3.80. How many "normal" hot dogs could be bought for the price of one "gourmet" hot dog?



8. If six cats can catch six rats in six minutes, how many cats are needed to catch ten rats in ten minutes?

9. A flash of lightning travels so quickly that it could travel around the world eight times in just one second. Write down the time it takes to travel just once around the world in fractions of a second, as a decimal?

10. **Open-Ended Question:** In the new TV program "THE LOUD HOUSE", there are 10 girls and just one boy living in the house. Is it possible that half of these children play tennis and the other half play netball? Why or why not? Explain your answer.



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1. 68
2. 20 magazines
3. 6 cars
4. 0.075
5. 24 boxes
6. $\frac{1}{72}$
7. 26 normal hot dogs, with \$1.20 left over
8. Six cats

[The solution: We are supposed to find the number of cats it takes to catch 10 rats in 10 minutes. From the problem, 1 cat can catch 1 rat in 6 minutes. So that's 1 cat-minute per rat. So, to catch 10 rats, it takes 6 cat-minutes per rat times 10 = 60 cat-minutes. If we have 10 minutes, then the number of cats we need is $60/10 = 6$ It's a tough question!]

9. 0.125 seconds
10. No. Explain why.