MATHAROO Worksheet EXT – 05 20

Student Name: _____

Grade:_____   Date:_____

1. Because General Motors Holden is closing down, there are huge discounts on their remaining stock of brand new cars. If one of their best models usually sells for $48,800, but is discounted by 35% to sell quickly, what would that cheaper price be?

2.   American astronaut Christina Koch landed back on earth last week after a 328-day mission and stay on the International Space Station. Is that more than ¾ of a year? Or is it less than ¾ of a year?

3. A huge mural celebrating Australian cricketer Ellyse Perry, and pop star Katy Perry, measures 2.2 metres high x 4.8 metres wide. If the gigantic faces of each of them takes 35% of the total area of the poster, what area remains, in square metres, for the design and writing?

4. Now that rain has fallen in many places across Australia, the grass is growing again. Andrew's dad was mowing the lawn, and noticed that Will on his left and Alison on his right were doing the same. Andrew's dad mows their lawn every 8 days, Will mows his every 15 days and Alison mows hers every 6 days. How many days will it be until they all mow their lawns simultaneously again?

5. Prices of electric cars at the moment are: Renault ($52,500); Hyundai ($52,900); Nissan ($54,500); Tesla ($67,900) and Jaguar ($150,000). Find the mean, median and mode of these current electric car values.

6.   The price of the biggest-circulation newspaper in Australia increased last week. It went from $1.90 per day to $2. If a subscriber buys the paper every day for the period from March to December, how much EXTRA does he/she have to pay because of this price increase?

7.   Charles has two piles of coins. The first pile has 4 times as many coins as the second. There are 30 coins altogether. How many coins are there in each pile?

8. What fraction of 9 kilometres is 90 metres?

9. **Open-Ended Question:** A shape made up of two rectangles has an area of 24 square centimetres. What might this shape look like? Give 3 possible solutions.