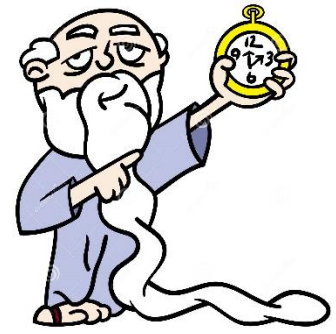




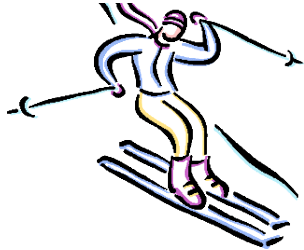
MATHAROO Worksheet UP – 22 20

Student Name: _____

Grade: _____ Date: _____



1. Last Sunday night, 21st June was the **LONGEST** night of the year. (Called the “**Winter Solstice**”.) Sunset was at 5:52 pm, and sunrise on Monday morning was at 6:33 am (Both, EST). How many hours and minutes were there between sunset and sunrise?



2. The ski season begins this Monday, 22nd June. Each ski lift bench seat at one resort holds 4 people, but because of virus limits, only half that number of people per seat are allowed. How many people could fit onto 6 ski lift seats at the moment?

3. The following people are in a queue at the hamburger shop: Josh, Wendy, Gary, Baron and Andy. Josh is ahead of Wendy, but behind Gary. There are three people between Gary and Baron. Andy is behind Josh, but ahead of Wendy. In what order is everyone standing in the queue?



4. Air travel is becoming available again, after isolation rules. In an



aircraft with rows 9 seats across – 3 groups of 3 – if the middle seat in each group of 3 **MUST** remain empty for reasons of hygiene, what **FRACTION** of the total number of seats can be occupied under the regulations?

5. Duchess Kate has made a video asking school children everywhere to “**SPREAD A LITTLE KINDNESS**”. The video runs for 4 minutes. What fraction of an hour is that?



6. One supermarket is selling a “**Second Bite**” donation card for people to buy for \$2, to make donating to this “food charity” easy. If the charity hopes to receive $\frac{1}{4}$ of a million dollars in donations, how many of these cards would need to be sold?



7. How many times does the **SMALL** hand on an analogue watch or clock point **EXACTLY** to the number 4 on the clockface in a period of a fortnight?



9	16
25	43

8. Which number in the graphic on the left is wrong? Why? What should that number be?

9. **Open-Ended Question:** Write 3.8 as a vulgar fraction, in 3 different ways.