



MATHAROO Worksheet EXT – 09 20

Student Name: _____

Grade: _____ Date: _____



1. The length of each quarter in one football code has been reduced from 20 minutes to 16 minutes, as a result of the recent health issues. By what **FRACTION OF AN HOUR** has the length of each quarter been reduced? Express your answer in simplest terms.

foxtel

2. Many people now pay "streaming subscriptions" for movies, TV series, etc. Some are free, but many charge. Examples are **STAN** (\$10 per month); **NETFLIX** (\$9.99 per month); **FOXTEL** (\$25 per month) and **AMAZON** (\$6.99 per month). Find the **MEAN**, **MEDIAN** and **MODE** of these 4 streaming services?

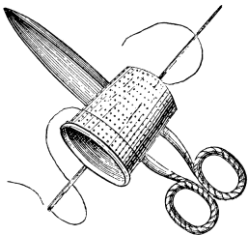
3. Bunnings has had to cancel its charity sausage sizzle stalls, for health reasons. Charities usually raise about \$1,800 per weekend by operating the stand for 16 hours. Bunnings is helping, though, by donating \$500 to each charity, instead of letting them run their sausage sizzle. If one charity usually runs for 4 weekends each year, how much **LESS** will they now earn than they usually did?



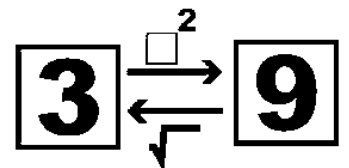
4. Charity "**THE SMITH FAMILY**" says that it takes two donors, each giving \$52 per month, to financially support one primary school child's education here in Australia. So, if a family donates \$1,000, for how many months would that money support a child for his/her schooling?



5. Mariah's grade at school has 24 children on the roll. But, for various reasons, last Friday only 8 of those children attended school. When the school asked, it found that $\frac{5}{8}$ of those absent were ill, while the others had parents who were very sick. How many of the **absent** children were actually sick?



6. One group of creative embroidery people have made up a new word - "**PATTERNOSAURUS**", making patterns for people who can't leave their homes. What fraction of the letters in the alphabet are **NOT** used in that new word?



7. A "**SQUARE NUMBER**" is the answer found when a number is multiplied by itself. If two of these square numbers are added together, their **SUM** is 106. What are those square numbers?
8. **Open-Ended Question:** A rectangular prism has a volume of 48 cm^3 . One of its dimensions is 6 cm. What might the other two dimensions be?

