



MATHAROO Worksheet EXT – 35 19

Student Name: _____

Grade: _____ Date: _____



1. The expected crowd at this week's Melbourne Cup, if the weather is fine, is 122,000 people. Organisers have to allow for a 15% greater or lesser number, to help cope with the numbers. So, what **COULD** be the largest, or the smallest, crowd at the Cup?



2. In the Australian Motorcycle Grand Prix, the winner of the 27-lap event had a time of 40 minutes 44 seconds. The second place-getter's time was 40 minutes 55 seconds. By what **FRACTION of one minute** did the winner beat the second place-getter?

3. Most people **LOSE** 35,000 skin cells each minute of their lives, on average. At that rate, how many skin cells do they lose each second?



4. The **DIFFERENCE in AREAS** of two rectangles is 32 cm². One of the rectangles measured 8 x 12 cm. What could the dimensions of the other rectangle be? Give 2 possible answers.

5. A "**HAY MATE**" charity concert on December 15th will aid drought-stricken farmers around Australia. Singers include John Farnham, Daryl Braithwaite, Jon Stevens, Vanessa Amorosi, Russell Morris, John Williamson, Vika and Linda Bull, and Tim Wheatley. What **PERCENTAGE** of **all** the letters in those names is the letter "a"?



6. Research has shown that 84% of 12-year-old children **CAN'T** "tread water" in a pool for 2 minutes. If there are 120 12-year-olds at Steve's school, at that rate how many of them **CAN** tread water for 2 minutes?

7. A rare painting – an Italian masterpiece painted by artist Cimabue in 1295, and measuring 26 x 20 cm, was auctioned recently. It sold for \$39 million. What was its value per square centimetre? And, does that statistic really mean anything? Why or why not?



8. **Open-Ended Question:** In a cricket match, $\frac{2}{5}$ of the first innings score for one team was made by batsmen hitting 4s, $\frac{1}{8}$ of the score was made by hitting 6s, and the rest of the runs were made in various ways. What **MIGHT** the final score for that innings have been? Give 3 possible answers.

