1. W.C. Miller Collegiate has 450 students. Every Thursday, 23% of the students order a chicken burger at lunch. How many students order a chicken burger? (2 marks)

\[
450 \times 0.23 = 103.5
\]

104 students. (1/2)

2. When humans sleep, their heart rate drops to 52 beats per minute, which is 81% of its normal value. What is a human's normal heart rate when not sleeping? Round your answer to a whole number. (2 marks)

\[
\frac{52}{x} = \frac{81}{100}
\]

Normal is 64.2 bpm. (1)

3. Of all the students at W.C. Miller, 14 out of every 23 own an Apple product. What percentage of students at W.C. Miller own an Apple product? (2 marks)

\[
\frac{14}{23} \times 100 = 60.9\%
\]

60.87 okay too.

4. What is the percent decrease on a microwave that is marked down from $225 to $179? (3 marks)

\[
225 - 179 = 46
\]

\[
\frac{46}{225} \times 100 = 20.4\%
\]
5. Chester deposits $6000 in a bank account earning 2% interest per year. Calculate the interest earned on his deposit after one year. (2 marks)

\[ I = Prt \]
\[ = 6000 \times 0.02 \times 1 \]
\[ = \$120 \]

6. Edmond invests $9500 at 3.15% for 4 months. Calculate the interest he earned. (2 marks)

\[ 9500 \times 0.0315 \times \left( \frac{4}{12} \right) \]
\[ = \$99.75 \]

7. Darlene invests $40,000 in a financial institution at a rate of 2%. Calculate the number of months it will take her investment to earn $1000 in interest. (3 marks)

\[ t = \frac{I}{Pr} \]
\[ = \frac{1000}{40000 \times 0.02} \]
\[ = 1.25 \times 12 = 15 \text{ months} \]