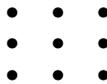# Problem Set V

1. Three consecutive numbers add up to 165. What are these numbers?

2. A dwarf Gruff has a collection of gemstones. His dream is to have three times as many gemstones as he has now. Gruff noticed that his dream will come true if he adds 18 more gemstones to his collection. How many gemstones does Gruff have now?

3. (a) Connect the four dots with 3 straight lines without lifting your pencil off the paper. Finish at the same point where you started.

$$\begin{matrix} \bullet & \bullet \\ \bullet & \bullet \end{matrix}$$

(b) Connect the nine dots with 4 straight lines without lifting your pencil off the paper. (Note that in this problem you are not required to finish at the same point where you started.)

$$\begin{matrix} \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet \end{matrix}$$

4. Henry finishes one set of 100 math problems 15 days. Bella finishes the same set in only 10 days. How long would it take for the two of them to finish the problem set together?