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- 9. Let ABC be a right triangle with right angle at C. Point P lies on segment \overline{AC} so that AP=9 and PC=17. The lengths BA,BP,BC form an arithmetic sequence. What is the length of BA? Express your answer as a common fraction.
- 10. How many four-term sequences of positive integers a, b, c, d are there satisfying

$$1 \le a$$
, $2a \le b$, $2b \le c$, $2c \le d$, $d \le 16$?

Extra: Pick a positive integer N in the set $\{1, 2, 3, 4\}$. If no other team picks N, every member of your team gets N tokens. Otherwise, every member of your team gets 0 tokens. (If you pick something outside the set or do not put an answer down, every member of your team gets 0 tokens.)