

Blacksburg Math Circle
Warm-up problems on 9/8/2018

1. A grasshopper jumping along a straight line can jump 6 or 8 inches in either direction. Can it reach a point that is
 - (a) 1.5 inches away from its original position?
 - (b) 7 inches away from its original position?
 - (c) 1 inches away from its original position?

2. Together Winne the Pooh, Owl, Rabbit, and Piglet ate 70 bananas. Each ate a whole number of bananas, and each ate at least one. Pooh ate more than each of the others; Owl and Rabbit together ate 45 bananas. How many bananas did Piglet eat?