

The important things to consider for these problems are these questions:

- (a) How frequently are the trees planted?
- (b) How many sides of the road?
- (c) On which ends? Both, one, or neither?

1. Let's consider our questions:

(a) the trees are planted every 5 meters along an 80 meter long road. So there are  $80 \div 5 = 16$  trees. **IMPORTANT:** this division is only for one end with a tree, one end without a tree! Remember this!

(b) both sides: so we double the amount.  $16 \times 2 = 32$

(c) from beginning to end, so both ends. The 32 trees we've counted so far only include one end, so to include the other end, we must add on two more trees. So we end up with  $32 + 2 =$

2. (a) the antennas are every 10 meters along a 100 meter lane. So we have  $100 \div 10 = 10$  antennas installed. **IMPORTANT:** this division includes one end, excludes the other end.

(b) one side.

(c) Exclude both ends. So we need to subtract one from our count.  $10 - 1 =$

3. We have counted 23 trees, including ones on both ends. How many gaps are there between these 23 trees? 22. So there are 22 stretches of 5 meters, for a total distance of  $22 \times 5 =$

4.

5.

6. (a)  $200 \text{ meters} \div 10 \text{ meters} = 20$  trees.

(b) both sides. So there are  $20 \times 2 = 40$  trees

(c) One end. So we don't have to do anything, and the answer is  trees.

7.

8.

9.

10. A pond is 300 meters, and there is a rose every three meters, so there are  $300 \div 3 = 100$  roses. If there is a daisy between every two roses, then there is one daisy per rose. So there are  daisies.