Section 1.1 Homework - Answers

These problems start on page 14 of your text book.

#4) Answers will vary.

#20) How much do the walnuts weigh alone? 310 pounds

Since there are 10 crates that weigh 10 pounds each, the total weight of all the crates is $10 \times 10 = 100$ pounds. Thus, the walnuts alone weigh $410 - 100 = 310$ pounds.

#44) Answer: 12

#48) Answer: 11

You need a post every ten feet, but you need posts at the beginning and end. Think of it this way: If you only had ten feet of fencing, you would need 2 posts (one at each end), if you had twenty feet of fencing, you would need 3 posts (one at either end and one in the middle), etc. If you continue this reasoning, you see that you will need ONE MORE post than the number of ten-foot sections in your fence. Hence, 100 feet of fencing has 10 ten-foot sections and so needs $10 + 1 = 11$ posts.