HN Math III Name: \_\_\_\_\_\_\_\_\_

Unit 5, Day 4 HW Date: Period:

**Solve the following:**

1. Working alone, Ryan can dig a 10 ft by 10 ft hole in five hours. Castel can dig the same hole in six hours. How long would it take them if they worked together?

30/11 hours

1. Shawna can pour a large concrete driveway in six hours. Dan can pour the same driveway in seven hours. Find how long it would take them if they worked together.

42/13 hours

1. Working together, Jenny & Natalie can mop a warehouse in 5.14 hours. Had she done it alone it would have taken Natalie 12 hours. How long would it take Jenny to do it alone?

8.99 hours

1. Krystal can wax a floor in 16 minutes. One day her friend Perry helped her and it only took 5.76 minutes. How long would it take Perry to do it alone?

9 minutes

1. After a heavy snowfall, Brian can shovel all of the driveway in 30 minutes. If his younger brother Allen helps, the job takes only 20 minutes. How long would it take Allen to do the job by himself?

60 minutes

1. Mr. McGregor has discovered that a small boy can destroy his entire garden in one hour less than the amount of time it takes a large dog to do the same job. If the dog and boy can destroy the garden together in 40 minutes, how long does it take each of them working individually?

Dog takes 120 minutes (2 hours) and the boy takes 1 hour less, so 60 minutes.