

41. What is the total weight of an army of 19649 men, their average weight being 158 lbs?

42. If there are twenty trains, each with 34 cars, each car loaded with 715 bushels of grain weighing 45 lbs. to the bushel, what is the total weight of the grain?

43. Find how many gallons of water three steam pumps would deliver in one day of 16 hours, if the first one delivers 16 gals. per minute, the second one 12 gals. per minute, and the third one 20 gals. per minute.

44. If an engine travels at the average rate of 47 miles per hour, how far will it travel in 67 hours?

45. Which weighs the most, and by how much, 345 castings weighing 569 lbs. each, or 497 castings weighing 498 lbs. each?

46. If a piston has an area of 458 sq. ins., and the pressure on it is 116 lbs. per sq. in., what is the total pressure on the piston?

47. An engine makes 340 revolutions per minute. How many revolutions will it make in 8 hours? (Suggestion: 8 hours = 480 minutes.)