

29. A ton of a certain kind of fuel occupies 42 cubic feet. What space will 73 tons occupy?
30. Light travels 185172 miles per second and passes from the sun to the earth in 493 seconds. What is the distance from the sun to the earth?
31. Three towns are in straight line. A is 29 miles east of Toronto, B is three times as far west of Toronto, and C is west of Toronto by 13 miles less than twice the distance from A to B. How far is it from A to C? Make a sketch to help you get the answer.
32. A pulley on the line shaft makes 170 revolutions per minute. How often will it turn in 19 hours?
33. The area of the piston of a 12" brake cylinder is 113 sq. in. What is the total pressure on the piston, if the pressure per sq. in. is 90 lbs.?
34. There are 746 watts in a H.P. How many are there in 375 H.P.?
35. A piston has an approximate area of 244 sq. ins. If the steam pressure upon it is 150 lbs. per sq. in., what is the total pressure upon it?
36. If there are 14 threads per inch on a screw, how many threads would there be in 17" of threading?
37. If a piston moves through 513 ft. of space in one minute, how far does it travel in 1 hr. 35 min.
38. An engine in a power plant requires 19 lbs. of steam per H.P. per hour. If the engine is developing 539 H.P. what is the total steam consumption in four hours?
39. An engine makes 420 revolutions per minute. How many R.P.M. will it make in eighteen minutes?
40. What is the total weight of 79586 castings, each one weighing 458 lbs.?