29. If a 10-inch belt will transmit 17 horse-power at a speed of 1800 feet per minute, and a 16-inch belt will transmit 36 horse-power at the same speed, how much power will be transmitted by the two belts?

30. Find the total area of a shop's floor space, i' he blacksmith shop has 10320 sq. ft., machine shop 6830 sq. ft., carpenter shop, 32415 sq. ft., boiler shop, 65992 sq. ft. and erecting shop 183928 sq. ft.

31. The weekly capacity of four lathes is as follows:— 4600 castings, 7461 nuts, 2530 brass boxings, and 2437 turned bolts. How many pieces do the four lathes turn out each week?

32. A locomotive driving wheel, during a run of three hours, makes 9187 revolutions the first hour, 9062 revolutions the second hour, and 9233 revolutions the third hour. How many revolutions did it make in the three hours?

33. If a 11" belt will transmit 21 H.P. at a speed of 1700 feet per minute, and a 17" belt will transmit 37 H.P. at the same speed, how much power will be transmitted at the same speed by the two belts?

34. An engine made the following daily runs during a week:—148 miles, 106 miles, 168 miles, 143 miles, 98 miles, 137 miles and 116 miles. What was its total mileage for the week?

35. The towns along a branch line are the following distances apart:—26, 46, 11, 17, 22, 35, 16, 29, 27, 31, 6, 24, 39, 14, 8 and 19 miles. What is the total length of the line?

36. The following shipments of iron castings are made by a foundry:—457683 lbs., 340056 lbs., 4958 lbs., 13000 lbs., 3849572 lbs., 55988 lbs., and 17229 lbs. What was the total weight of castings shipped?