

DIVISION INTO PROPORTIONAL PARTS. 143

Monday 13th July, 1868, in the following towns, was:—Ottawa, 104; Montreal, 96; Toronto, 92; New York, 90; Buffalo, 82; New Orleans, 81. Find their average highest temperature?

(2) On Sunday I spent no money, on Mond. \$4.25, on Tues. \$5.75, on Wed. \$6.60, on Thurs. \$7.80, on Frid. \$3.50, on Sat. \$5.58; find my average daily expenditure during the week.

(3) The highest temperature registered in the shade in the week ending on Midsummer-day, 1865, in the following towns, was:—Birmingham, 87.8; Manchester, 87.7; London, 87.6; Bristol, 86.8; Leeds, 85.0; Salford, 84.5; Dublin, 83.8; Edinburgh, 78.0; Liverpool, 77.9; Glasgow, 77.6. Find their average highest temperature.

(4) In a school, 17 children average 6 yrs.; 26, 7½ yrs.; 35, 9½ yrs.; 20, 10 yrs.; and 8, 12½ yrs. Find the average age of all the children.

(5) The average age of 27 men is 57 years, that of the first eleven is 53 years, and that of the last eight 59½ years. Find the average age of the rest.

(6) The populations of 3 towns in 1851 were 31326, 42324, and 6706; in 1861 the first two had increased 12, and 10 per cent. respectively, and the last had decreased 18 per cent.; find the average population of the 3 towns in 1861.

(7) A tradesman's average annual gain from the year 1853 to 1863, both inclusive, was £184. 11s. 6d.; in 1853 he lost £76. 8s. 4d., and in 1864 he gained £151. 9s. 10d. What was his average annual gain from 1854 to 1864, both inclusive?

DIVISION INTO PROPORTIONAL PARTS.

137. *To divide a given number into parts, which shall be proportional to certain other given numbers.*

This is an application of the Rule of Three; still it may be well to state a general Rule, by which such Ex^s. may be worked.

RULE. As the sum of the given parts : any one of them :: the entire quantity to be divided : the corresponding part of it.

This statement must be repeated for each of the parts, or at all events for all but the last part, which may either be