

44. Divide the number 17 into two parts, that shall be to each other as $\frac{2}{3}$ to $\frac{3}{4}$.
45. A farmer had 180 sheep in two fields, and $\frac{1}{4}$ of the number in the first field equalled $\frac{1}{5}$ of the number in the second; how many in each field?
46. Divide 88 into two parts that shall be to each other as $\frac{2}{3}$ to $\frac{4}{5}$.
47. $\frac{3}{5}$ of the distance a hare ran after a hound started in pursuit, equalled the distance she was before the hound when they started; how far did the hare run before she was caught, provided the hound ran 80 rods to overtake her?
48. A and B started from the same point, and ran in the same direction; B ran 60 rods; when $\frac{1}{11}$ of the distance A had run equalled the distance A was ahead of B. How much did A gain on B in running 60 rods?
49. A fishing-rod the length of which is 24 feet, is in two parts; $\frac{3}{5}$ of the longer part equals the length of the shorter. How long is each part?
50. A hound ran 90 rods before he caught a deer; the deer ran 44 times as far as it was ahead of the hound when they started, before it was overtaken. How far ahead of the hound was the deer when the chase commenced?
51. $\frac{2}{3}$ of A's number of sheep + $\frac{3}{4}$ of B's number, equals 900; how many sheep has each, provided $\frac{3}{4}$ of B's number is twice $\frac{2}{3}$ of A's number?

Lesson XIII.

1. A person had two silver cups, and only one cover for both. The first cup weighed 6 oz. If the first cup be covered, it will weigh twice as much as the second, but if the second cup be covered it will