

5. What volume of dilute sulphuric acid, of specific gravity 1.6, and containing 55.93 per cent. by weight of sulphuric anhydride (sulphur trioxide) will be required to convert 5.4 kilogrammes of apatite (tricalcium phosphate) into superphosphate of lime (mono-calcium phosphate)?
 $S = 32.$ $O = 16.$ $Ca = 40.$ $P = 31.$
6. Ascertain what acid and what base are present in the simple salt furnished you. Give an account of your procedure in its analysis.

CONTEMPORARY LITERATURE.

In the last number of the *Littell's Living Age* will be found Prince Kropotkin's article on "Recent Science," originally published in the *Nineteenth Century*. The article in question is reported to contain a satisfactory explanation of dreams.

Those who are interested in combatting school twelve months in the year will find this subject introduced in a paper by the Rev. E. A. Kirkpatrick in the August *American Monthly Review of Reviews*. "The Progress of the World" in the same magazine deals with Canada's relation to Britain, the new tariff, and other political problems of present day interest.

The *Century* has not given way entirely to the summer's keen appetite for stories. It insists, instead, that its readers should take vastly improving journeys down the Hudson, and through Thessaly, Alaska, Java, and Norway. But then most of us love to be taught, and won't be satisfied unless we think we know something. Particularly charming is the light pen that writes of "London at Play," on this occasion at play by the sea on Margate Sands. Elizabeth Robins Pennell and Joseph Pennell together invariably mean a holiday from everything but artistic care. The short story called "Concealed Weapons" by Margaret Sutton Briscoe, is a very good short story indeed. The

uncle and the niece are both persons who carry liking away with them.

The Youth's Companion for Aug. 25th does not contain so many pages as that interesting periodical often does, but it is as full as possible of stories good enough to be in the *Youth's Companion*, and that is saying a great deal. The first is a continued story about a farmer's boy who is going to invent something, if possible the milking machine he desires, before the end of the 4th chapter. "Companions of the Voyageurs" is about our own country. We have long desired to thank the *Youth's Companion* for its friendship to Canada, not seldom warmly and judiciously displayed.

The complete novel in *Lippincott's* for September is by an English writer, Margaret L. Woods. She has called her story "Weeping Ferry," and it is sad enough, but truly and gracefully told. The publishers are already beginning to prepare us for 1900 and all we must make it our duty to know by the time of the Paris Exposition. Theodore Stanton explains what share each nation will have in the gathering.

"On Being Human" is a title which attracts readers as flowers do bees. The writer, Woodrow Wilson, could not have chosen it without an instinct for comfort; it is the kind of article one expects to