- 1. If the interval between the flash and report of an explosion is $6\frac{1}{2}$ seconds, how far away is the explosion, reckoning the velocity of sound to be 1090 ft. a second?
- 2. If sound travels $3\frac{3}{4}$ times as fast though water as through air, how long would it take for an explor on one mile away to be heard under water?
- 3. Lightning was seen to strike a tree $3\frac{1}{2}$ seconds before the report of thunder was heard. How far away was the tree?
- 4. If $\frac{3}{4}$ of the weight of potatoes is water, and $\frac{5}{3^2}$ of their weight is starch, how many more pounds and ounces of water than starch are there in 100 lb. of potatoes?
- 5. In most parts of this country a bushel of potatoes weighs 60 lb. How many pounds of starc! in 80 bu. of potatoes?
- 6. If a wheel 10 ft. in circumference turns round !860 times in going from one place to another, what is the distance in feet? in miles?
- 7. The circumference of a circle is about 31 times the diameter. In going from A to B, 1430 revolutions of a wheel 41 ft. in diameter were counted. What is the distance?
- 8. How many times must a carriage wheel 3½ ft. in diameter turn in going 2½ miles?
- 9. If a man works $8\frac{1}{2}$ hours a day 6 days in a week, what fraction of the week is spent in work? If one-half of the remainder of his time is given to sleep, how many hours on an average does he sleep?
 - 10. What fraction of August has passed at 16 A.M. August 16?
- 11. If \$2 will buy \$ of a yard of broadcloth, how much will a yard cost? How much will \$8.25 buy?
- 12. How many cubic feet of earth must be removed in digging a cellar 18 ft. 3 in. long, 12 ft. 6 in. wide, and 5 ft. 9 in. deep?
- 13. At \$18.40 per M., what will the boards cost which were used in the floor of your school-room? (Draw plan.)
- 14. From a barrel of pork weighing 200 lb. there was sold 84 lb. 6 oz. What is the remainder worth at \$8.25 a hundredweight?
- 15. At \$5 a ton, what will 600 lb. of coal cost? 1500 lb.? 8 cwt.? 9 cwt. 20 lb.?