## GRADED ARITHMETIC.

1 A can do in 41 days a piece of work that requires B 5 days, and C 61 days to do it. In how many days can they all do it, working together?

2. A lumber dealer bought 460,000 ft. of lumber at \$16.90 per M., and sold it at \$22 per C. What did he gain ?

3. How long will a quantity of flour last 9 persons, if it lasts 4 persons 121 months?

4. A farm containing 624 acres was sold for \$11,466. What was the rate per acre?

5. 25 men were employed on a building, each receiving the same wages. If at the end of 14 days they were paid in the aggregate \$962.50, how much did each receive per day?

6. The profits of a grocery business for 1 year were \$3450, which was  $\frac{4}{35}$  of the entire capital. What was the capital invested ?

7. If sound travels at the rate of 1090 ft. a second, and if a gun be discharged at a distance of  $5\frac{1}{2}$  miles, how much time can elapse after seeing the flash before hearing the sound?

8. How many tons of coal can be bought for \$275.50 at  $5\frac{1}{2}$  for  $\frac{1}{3}$  of a ton? What will 8 T. 450 lb. cost?

9. In digging a cellar 48 ft. by 36 ft. 6 in. and 8 ft. 9 in. deep, how many cubic yards of earth must be removed?

10. The Montmorenci River, just before entering the St. Lawrence, makes a fall of 261 ft. What per cent of the fall is the width, if at its brink it measures 20 yards across?

11. The distance from Montreal, by water, to Ha-ha Bay, on the Saguenay, is 380 miles. If the distance to Quebec is  $47_{1^{7}5}$ % of the way, how far is it to Quebec?

12. If the bread made from a barrel of flour weighs 35% more than the flour, what is the weight of bread made from 2 barrels of flour?

13. What is the value of 4 tons of hay at the rate of \$112 for 7 tons? What is the value of 1850 lb.?

14. At \$4.50 per barrel, what will a sack of flour weighing 49 lb. cost? 157 lb. 100 lb.?

15. What will it cost to send 4720 lb. of goods by freight from New York to Baltimore at  $95 \not\in$  per 100 pounds?

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