

the distance he traveled the second day equalled the distance he traveled the first and third days. How far did he travel each day?

8. A is worth \$1000, and B and C together are worth 9 times as much as A; and C is worth $\frac{1}{5}$ as much as A and B. How much is B and C worth respectively?

9. A's coat cost \$20, and his vest and hat together cost 5 times as much as his coat; and 3 times the cost of his vest equalled the cost of both coat and hat. What was the cost of his vest and hat respectively?

10. B's harness cost \$120, which was $\frac{1}{3}$ of the cost of his horse and sleigh; and the harness and horse together cost twice as much as the sleigh. How much did the horse and sleigh cost respectively?

11. A tree in falling broke into three unequal pieces. The top piece was 8 feet long, which was $\frac{1}{5}$ of the length of the other two pieces; and 3 times the length of the bottom piece, equals the length of the other two pieces. How long was the tree, and how long was each piece?

12. Find the ages of A, B, and C, by knowing that A is 20 years old, and that the sum of B and C's age is 4 times A's age; and that C's age is $\frac{1}{5}$ of the sum of A and B's age.

13. Find the fortunes of A, B, C, D, E, and F, by knowing that A is worth \$20, which is $\frac{1}{4}$ as much as B and C are worth, and that C is worth $\frac{1}{3}$ as much as A and B; and, also that if 19 times the sum of A, B, and C's fortune were divided in the proportion of $\frac{3}{4}$, $\frac{1}{2}$, and $\frac{1}{3}$ it would respectively give $\frac{3}{4}$ of D's, $\frac{1}{2}$ of E's and $\frac{1}{3}$ of F's fortune.

14. A and B dug 100 rods of ditch for \$100. A received 10 shillings a rod and B 6 shillings a rod. How many rods did each dig, provided each received \$50?

Ans. A dug $37\frac{1}{2}$ rods, and B $62\frac{1}{2}$.

NOTE.—Consider the above a Penn. or N. J. question.