

# ARITHMETICAL PROBLEMS.

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## I.

1. A boy gave  $\frac{2}{3}$  of his money for a pair of skates and  $\frac{1}{2}$  of the remainder for a book. He had \$2.10 left; how much money had he at first?
2. A farmer gave  $\frac{3}{4}$  of his money for a horse and had \$60 more left than he spent; how much had he before he bought the horse?
3. A can do a piece of work in 4 days, B in 7 days; how long will it take both working together to do it?
4. A boy can do a certain work in 9 days and his father can do it in  $5\frac{1}{2}$  days; how long will it take both working together to do it?
5. Two men can dig a certain ditch in 9 days, one of them can do it alone in 12 days; how long will it take the other man to do it alone?
6. A, B and C can perform a certain work in 10 days. A can do it in 16 days, B in  $23\frac{1}{2}$  days; how long will it take C to do it?
7. Two boys can do a work in  $8\frac{1}{2}$  days, one of them can do it alone in 14 days; how long will it take the other boy to do it?
8. A man can mow a certain field in 5 days, his son can mow it in 7 days. The son works at it for two days alone and then leaves; how long will it take his father to finish it?
9. A can perform a certain job in 5 hours, B in  $4\frac{1}{2}$  hours, C in 6 hours. All work together at it for an hour when A and B leave; how long will it take C to finish it?
10. A in 2 days can do as much work as B in 3 days; together they take 14 days to do a certain work. In what time would A alone have done it?

## II.

1. A man can perform a certain amount of work in  $\frac{1}{3}$  of a day, his son can do it in  $\frac{1}{4}$  of a day; how long will it take both working together to do it?