

QUESTIONS, QUERIES AND PUZZLES,

FOR

PUPILS AT HOME.

1. A hound is in pursuit of a fox that is 10 rods ahead of him, and *while* the hound runs 10 rods the fox runs 1 rod, (*i. e.* while the hound runs a certain distance, the fox runs one-tenth of that distance.) Will the hound overtake the fox? The conditions remaining the same, what is the greatest distance they can run?
2. A hound is in pursuit of a fox that is ten rods ahead of him, and *while* the fox runs 1 rod the hound runs 10 rods. How far will the hound run before he overtakes the fox?
3. Place four 5's in such a position that they shall equal $6\frac{1}{2}$.
4. A boy was sent to a spring with a 5, and a 3 quart measure to procure exactly 4 quarts of water. How did he measure it?
5. What is the difference between twice 25, and twice 5 and 20?
6. A man had 9 pigs and put them in four pens, with an odd number of pigs in each pen. How did he divide them?
7. Two men have an 8 gallon cask full of wine, which they desire to divide equally between them. How can they effect this division, provided the only measures they have are a 5 gallon cask and a 3 gallon cask?
8. Place four 2's in such a manner that they shall exactly equal 23.
9. Place 9 apples in 10 rows so that each row shall contain 3 apples.
10. A squirrel finding 9 ears of corn in a box, took from it daily, 3 ears; how many days was he in removing the corn from the box?
11. If from *six* you take IX, and from IX you take ten; and if fifty from forty be taken, there will then just half a dozen remain.