$$
\begin{gathered}
\therefore(-x+6)(-x-10)=7 / 8(-x)(-x-4) \\
x 2+4 x+4=484 \\
-x=-24 \text { or } 24 \text { downwards. }
\end{gathered}
$$

It will be noticed that the triangles are the same in form, But different in postion. PROBLEMS.
(97 Note). None of our correspondents have noticed the intention of this problem. It is required to classify alumina according to the clefinition proposed, and the difficulty to be met is that towards a strong acid alumina acts as a base, while towards a strong base it acts as an acid.
( 96 Note.) To be solved by Arithmetic. (Alligaticn).
99. "The flocks of birds increased, and were cornposed not only of sea-fowl, but of such land bards as could not be supposed to fly far from the shore."-4th Reader, page 47.
"The hopes oi his companions subsided faster than they had risen.' -4 th Reader, page 46.

Parse the words as, and than in the foregoing sentences.

Alex'r McImosh, Pinkertòn.
100. Ana!yze, and parse underlined words,
"She became at length so embarrassed with hos. tilities at home, as to be oblivious of her more remote subjects.-Fourth Reader, page 2, line in from the bottom."
T. J. Godfrey, Seaforth.

10I. A uniformly flat triangular istone whose sides are 25 inches, 30 inches, and 40 inches, is car. ried by three men, each supporting a corner. Com. pare the weights supported by the men.

## II. A. Jameson, Glenmorris.

102. The slant side of a roof is 88 ft . and its edge is 37 ft . irom the ground. A boy starts his ball down the roof with a velocity which would just carry it from the side to the edge in one second of time. The ball is caught by a second boy whose hand is 3 ft . from the ground. How far is the second boy from the side of the house, the roof making an angle of $30^{\circ}$ with a horizontal line. (Answer must not contain surds,

## Ditro.

103. A drover paid the sum of $£ 100$ for 100 head, consisting of oxen, pigs and geese, he was to pay for each ox $\mathfrak{£}_{4}$, for each sheep $£_{1}$, each goose is, hew many of each did he buy ?

## R. M. White, Northport.

104. The hour, minute, and second-hands of a watch revolve uniformly on concentric axes, they: are together at noon, how soon will the second hand be midway between the other two ? When will the second bisection occur?

Selected.

## EDITOR'S DRAWER.

-We always re-mail copies of the Tpacher which have gone astray when notified promptly, but can not promise to do so after the lapse of Several months.
-It is again mooted that Dr. Rycrson is about to retire from the position of Chief Superintendent of Education. The venerable Chicf is certainly well entitled to sepose after his long service of thirty years.
-We wish it to be distinctly understood that while allowing a fair latitude for the discussion of educational questions, we do not hold ourselves resp: $\frac{4}{4}$ ponsible for the opinions of our contributors or cos: respondents.
-We would be greatly obliged to postmasters, dif others, for as many copies of the "Teacher" fort February 1875, as they can send us. We hayto been quite unable to supply the demand for that No.

