

The Weekly Rigor

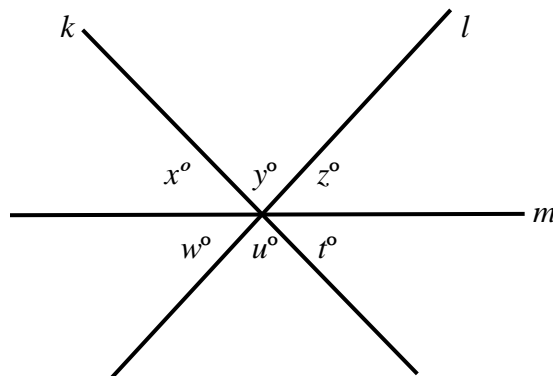
No. 131

“A mathematician is a machine for turning coffee into theorems.”

December 24, 2016

SAT Math Test Problem Children: Geometry (Part 5)

11.

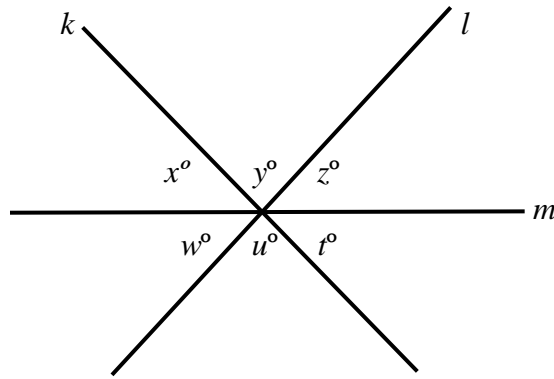


Note: Figure not drawn to scale.

In the figure above, lines k , l , and m intersect at a point. If $x + y = u + w$, which of the following must be true?

- I. $y = t$
 - II. $z = u$
 - III. $y = w$
- A) I and II only
B) I and III only
C) II and III only
D) None

12.



Note: Figure not drawn to scale.

In the figure above, lines k , l , and m intersect at a point. If $x + y = u + w$, which of the following must be true?

- I. $x = z$
 - II. $y = w$
 - III. $z = t$
- A) I and II only
B) I and III only
C) II and III only
D) I, II, and III

ANSWERS

1. $\frac{4}{5}$	5. 6	9. 32
2. $\frac{4}{5}$	6. 12	10. A
3. $\frac{3}{5}$	7. 33	11. D
4. 9	8. 15	12. B

“Only he who never plays, never loses.”