The Weekly Rigor

SAT Math Test Problem Children: Geometry
(Part 5)

11.
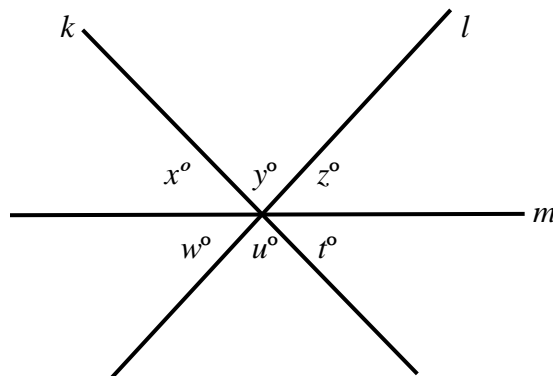
Note: Figure not drawn to scale.

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
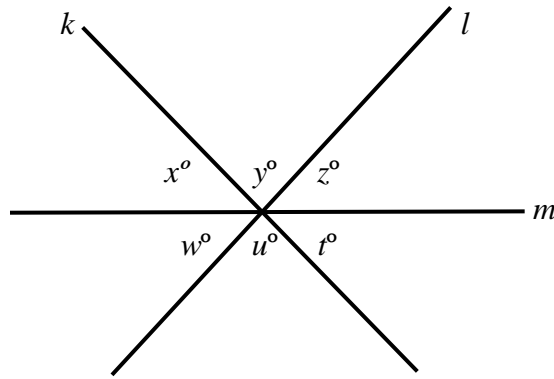D)   None

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