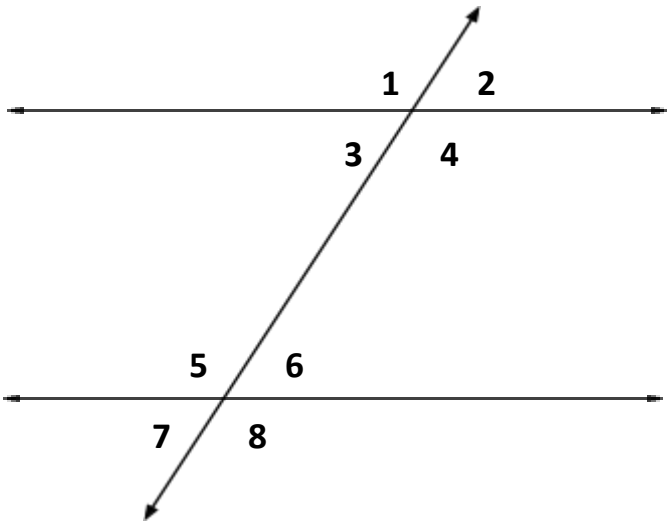
# 2-1 Lines, transversals and angles

**Use the following diagram to answer questions:**




1) The corresponding angle to <1 = _____

2) The corresponding angle to <4 = _____

3) The alternate interior (AI) to <6 = _____

4) The alternate interior (AI) to <5 = _____

5) The alternate exterior (AE) to <1 = _____

6) The alternate exterior (AE) to <2 = _____

7) The same side interior (SSI) to <3 = _____

8) The same side interior (SSI) to <4 = _____

9) The same side exterior (SSE) to <1 = _____

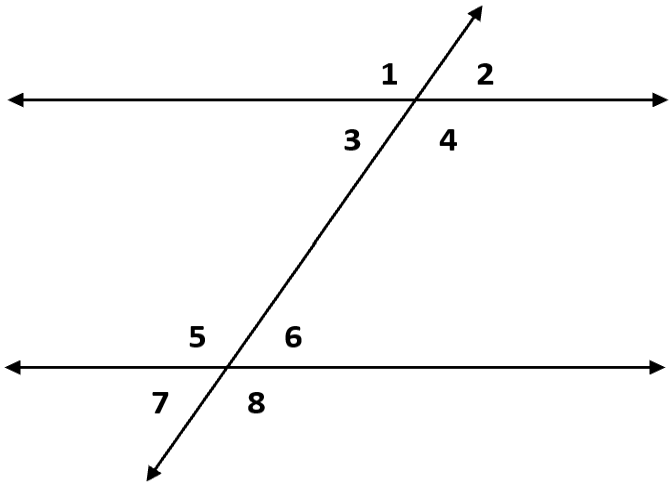
10) The same side exterior (SSE) to <2 = _____

11) The vertical angle to <5 = _____

12) The linear pair with <4 = _____

# 2-1 Lines, transversals and angles

**Use the following diagram of two parallel lines with a transversal to answer questions 13-17:**




13) If <1 = **x – 15** and <5 = **120°**, solve for x

14) If <4 = **3x + 4** and <5 = **2x + 44**, what is the measure of <4?

15) If <1 = **4x + 5** and <7 = **2x + 25**, what is the measure of <7?

16) If <3 = **5x + 10** and <8 = **2x – 40**, what is the measure of <3?

17) If <5 = **4x + 5** and <6 = **3x + 35**, what is the measure of <5?