

- Find the Missing Angle Measures (Not drawn to Scale)

1) $4 \cdot 18 = 72$ (written as 112 in red)
 $4x + 3x - 16 = 180$
 $7x - 16 = 180$
 $+16 +16$
 $7x = 196$
 $\frac{7x}{7} = \frac{196}{7}$
 $x = 18$

2) $3x + 2x = 90$
 $5x = 90$
 $\frac{5x}{5} = \frac{90}{5}$
 $x = 18$

$3(18) = 54$
 $2(18) = 36$

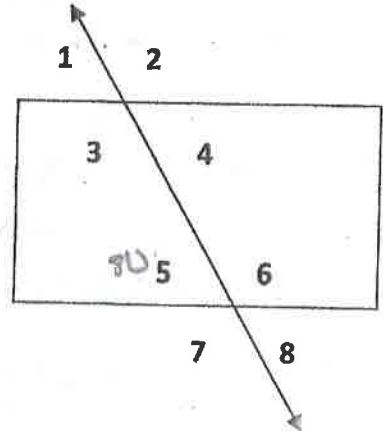
3) $4 \cdot 19 = 76$
 $5 \cdot 19 + 9 = 104$
 $5x + 9 = 104$
 $4x + 5x + 9 = 180$
 $9x + 9 = 180$
 $-9 -9$
 $9x = 171$
 $\frac{9x}{9} = \frac{171}{9}$
 $x = 19$

4) $180 - 60 = 120$
 $4(25) + 20 = 120$
 $60 + 4x + 20 = 180$
 $4x + 80 = 180$
 $-80 -80$
 $4x = 100$
 $\frac{4x}{4} = \frac{100}{4}$
 $x = 25$

5) $10x - 45 = 105$ (written as 105 in red)
 $5x + 10x - 45 = 180$
 $15x - 45 = 180$
 $+45 +45$
 $15x = 225$
 $\frac{15x}{15} = \frac{225}{15}$
 $x = 15$

6) $41 + 8 = 49$
 $x + 8 + x = 90$
 $2x + 8 = 90$
 $-8 -8$
 $2x = 82$
 $\frac{2x}{2} = \frac{82}{2}$
 $x = 41$

The rectangle is cut by line g. If the measure of angle 5 is 80° , find the other angle measures.



- <1 80 → 112, 68
- <2 100 → 80, 36
- <3 100 → 76, 104
- <4 80 → 120, 60
- <5 = 80°
- <6 100
- <7 100
- <8 80