Name	
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Complementary & Supplementary Angles

Score _____

CS:20

1)	Angle y and z are supplementary angles. If $m \angle z = (2x - 3)^0$ and $m \angle y = (x - 27)^0$,
	find the value of x, m \angle y and m \angle z.

2) Angle 5 and 6 are complementary angles. If $m \angle 5 = (11x)^0$ and $m \angle 6 = (7x)^0$, find the value of x, $m \angle 5$ and $m \angle 6$.

3) Angle 7 and 8 are supplementary angles. If $m \angle 7 = 30^{\circ}$ and $m \angle 8 = (x + 1)^{\circ}$, find the value of x and $m \angle 8$.

4) Angle g and h are complementary angles. If $m \angle h = (x - 5)^0$ and $m \angle g = 45^0$, find the value of x and $m \angle h$.

5) Angle 1 and 2 are supplementary angles. If $m \angle 2 = 105^{\circ}$ and $m \angle 1 = (2x + 3)^{\circ}$, find the value of x.

ÅF	Complementary & Supplementary	Name	_
	Angles	Score	_
	Answer key	CS:20	

1) Angle y and z are supplementary angles. If $m \angle z = (2x - 3)^0$ and $m \angle y = (x - 27)^0$, find the value of x, $m \angle y$ and $m \angle z$.

x = 70 ; $m \angle y = 43^{\circ}$; $m \angle z = 137^{\circ}$

2) Angle 5 and 6 are complementary angles. If $m \angle 5 = (11x)^0$ and $m \angle 6 = (7x)^0$, find the value of x, $m \angle 5$ and $m \angle 6$.

x = 5; $m \angle 5 = 55^{\circ}$; $m \angle 6 = 35^{\circ}$

3) Angle 7 and 8 are supplementary angles. If $m \angle 7 = 30^{\circ}$ and $m \angle 8 = (x + 1)^{\circ}$, find the value of x and $m \angle 8$.

x = 149 ; $m \angle 8 = 150^{\circ}$

4) Angle g and h are complementary angles. If $m \angle h = (x - 5)^0$ and $m \angle g = 45^0$, find the value of x and $m \angle h$.

x = 50 ; $m \angle h = 45^{\circ}$

5) Angle 1 and 2 are supplementary angles. If $m \ge 2 = 105^{\circ}$ and $m \ge 1 = (2x + 3)^{\circ}$, find the value of x.

x = **36**