



Vertically Opposite Angles

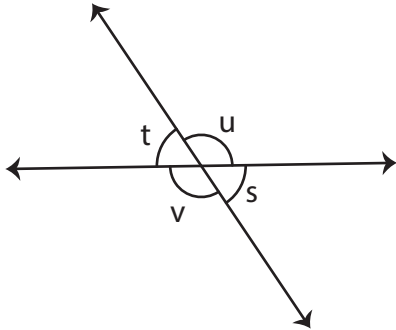
Name _____

Score _____

PA:24

Find the unknown angle.

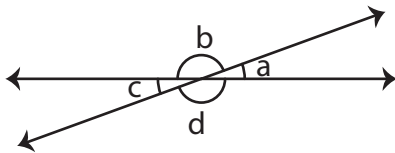
1)



$m\angle u = 123^\circ$; $m\angle v =$

$m\angle s =$; $m\angle t =$

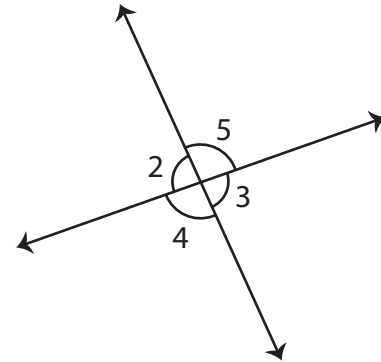
3)



$m\angle b = 160^\circ$; $m\angle a =$

$m\angle c =$; $m\angle d =$

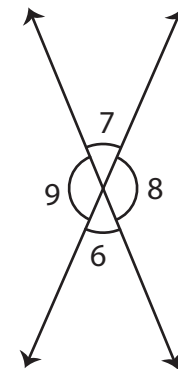
2)



$m\angle 5 = 85^\circ$; $m\angle 4 =$

$m\angle 3 =$; $m\angle 2 =$

4)

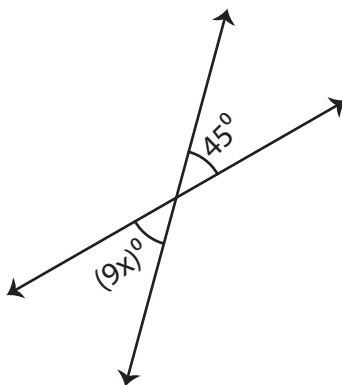


$m\angle 7 = 46^\circ$; $m\angle 8 =$

$m\angle 9 =$; $m\angle 6 =$

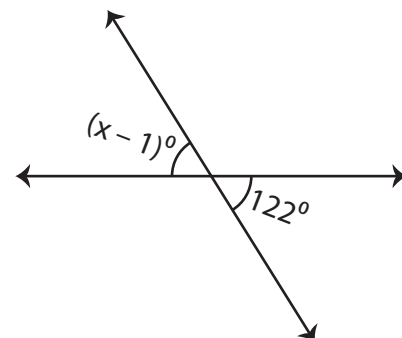
Find the value of x.

1)



$x =$

2)



$x =$



Vertically Opposite Angles

Name _____

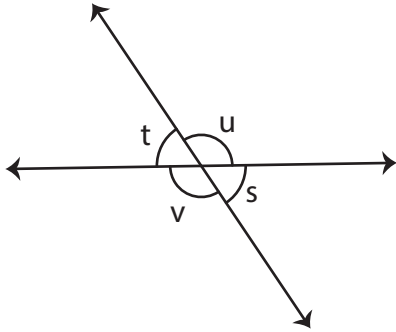
Score _____

Answer key

PA:24

Find the unknown angle.

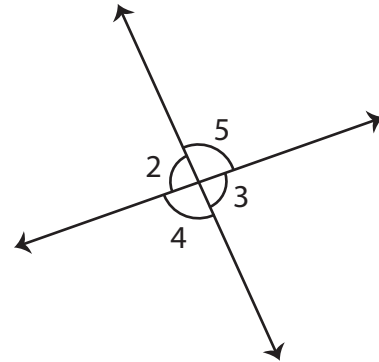
1)



$$m\angle u = 123^\circ ; m\angle v = \boxed{123^\circ}$$

$$m\angle s = \boxed{57^\circ} ; m\angle t = \boxed{57^\circ}$$

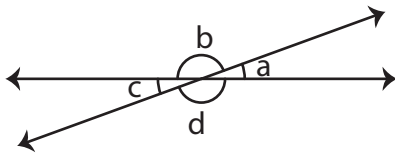
2)



$$m\angle 5 = 85^\circ ; m\angle 4 = \boxed{85^\circ}$$

$$m\angle 3 = \boxed{95^\circ} ; m\angle 2 = \boxed{95^\circ}$$

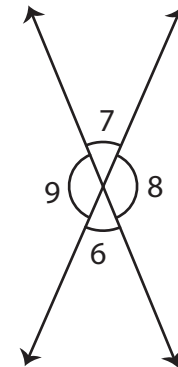
3)



$$m\angle b = 160^\circ ; m\angle a = \boxed{20^\circ}$$

$$m\angle c = \boxed{20^\circ} ; m\angle d = \boxed{160^\circ}$$

4)

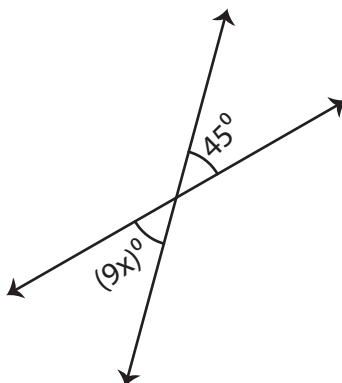


$$m\angle 7 = 46^\circ ; m\angle 8 = \boxed{134^\circ}$$

$$m\angle 9 = \boxed{134^\circ} ; m\angle 6 = \boxed{46^\circ}$$

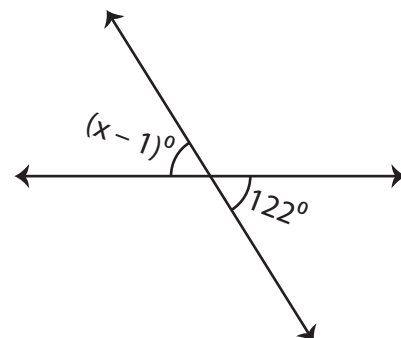
Find the value of x.

1)



$$x = \boxed{5}$$

2)



$$x = \boxed{123}$$