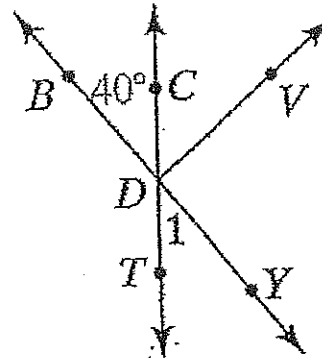
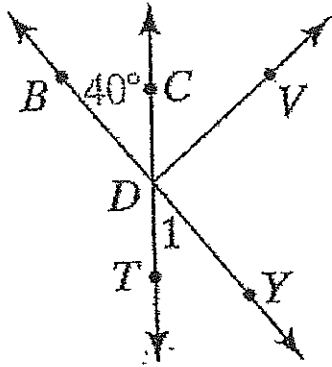


# Angle Relationships

## Marker Talk

NAME \_\_\_\_\_

NAME \_\_\_\_\_



### Ishaan's Work

$$\begin{aligned} \angle CDV \\ 90 + 40 \\ = 130^\circ \end{aligned}$$

$$\begin{aligned} \angle BDT \\ 90 - 40 \\ = 50^\circ \end{aligned}$$

$$\angle VDY$$

$$180 - 40 - 130 = 10^\circ$$

1.  $m\angle CDV = 130^\circ$
2.  $m\angle BDT = 50^\circ$
3.  $m\angle VDY = 10^\circ$

### Raysha's Work

$$\begin{aligned} \angle CDV \\ 90 - 40 \\ = 40^\circ \end{aligned}$$

$$\begin{aligned} \angle BDT \\ 180 - 40 \\ = 140^\circ \end{aligned}$$

$$\angle VDY$$

BDT is vertical to CDY  
 so  $CDY = 140^\circ$        $140 - 40 = 100^\circ$

1.  $m\angle CDV = 40^\circ$
2.  $m\angle BDT = 140^\circ$
3.  $m\angle VDY = 100^\circ$

Which answers do the students have correct?

Which ones are incorrect? What would the correct answers be?

Choose a missing angle in the diagram and show two different ways to find the angle measure.