

$\overline{TO} \cong \overline{AD}$

def of \cong segs

$TO = AD$

$\angle 4 \cong \angle 5$

def of \cong \angle s

$m\angle 4 = m\angle 5$

$\angle L$ and $\angle E$ are supplementary

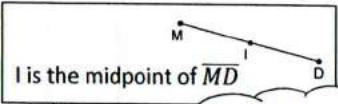
def of supp. \angle s

$m\angle L + m\angle E = 180^\circ$

$\angle L$ and $\angle E$ are complementary

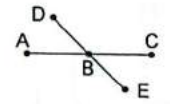
def of comp. \angle s

$m\angle L + m\angle E = 90^\circ$



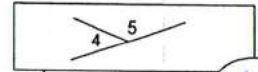
I is the midpoint of \overline{MD}
def of midpt

$\overline{MI} \cong \overline{ID}$



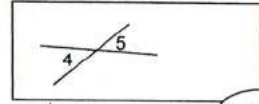
\overline{DE} bisects \overline{AC}
def of seg bis

B is the midpt of \overline{AC}



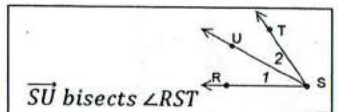
linear pps are supp

$\angle 4$ and $\angle 5$ are supp.



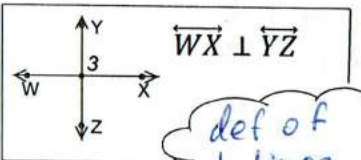
vert \angle s are \cong

$\angle 4 \cong \angle 5$



\overline{SU} bisects $\angle RST$
def of \angle bis

$\angle 1 \cong \angle 2$



$\overline{WX} \perp \overline{YZ}$
def of \perp lines

$\angle 3$ is rt

$\angle H$ is right

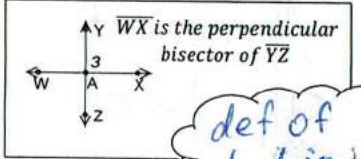
def of rt \angle

$m\angle H = 90^\circ$

$\angle C$ and $\angle D$ are right angles.

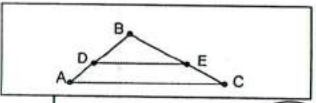
all rt \angle s are \cong

$\angle C \cong \angle D$



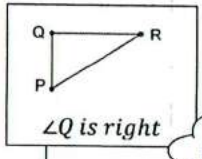
def of \perp bis

$\overline{WX} \perp \overline{YZ}$ or A is the midpt of \overline{YZ}



refl prop of \cong

$\angle B \cong \angle B$



def of rt Δ

ΔPQR is a rt Δ

$\angle 5 \cong \angle 8$ and $\angle 8 \cong \angle 4$

trans. prop of \cong

$\angle 5 \cong \angle 4$

Linking Responses Practice #1

Complete the missing responses and justifications.

1. Line n bisects \overline{JL}

def. of seg. bis.

K is midpt of \overline{JL}

def. of midpt

$\overline{JK} \cong \overline{KL}$

2.

vert. \angle s are \cong

$\angle 1 \cong \angle 2$

$\angle 2 \cong \angle 3$

trans. prop. of \cong

$\angle 1 \cong \angle 3$

3. $\overline{GH} \perp m$

def. of perp. lines

$\angle 1$ and $\angle 2$ are rt \angle s

all rt \angle s are \cong

$\angle 1 \cong \angle 2$