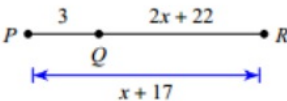


10.7.15

Statements	Justifications	Statements	Justifications
1. $-5n - 8(1 + 7n) = -8$ $-5n - 8 - 56n = -8$ $-61n - 8 = -8$ $-61n = 0$ $61 \overline{) 0}$ 0 $n = 0$	Dis LT ADD Div	2. Find the length of PR.  $PQ + QR = PR$ $3 + 2x + 22 = x + 17$ $2x + 2x = x + 17$ $8 + 2x = x + 17$ $-2x - 2x$ $8 = -1x$ -8 $x = -8$ $(-8) + 17 = 9$ $PR = 9$	.SAP .Substitution .Subtraction .division .plug in .Subtraction

Write an equation to model the situation. Then solve using your justifications.

3. The equatorial diameter of Jupiter is about 89,000mi. This is about 11.23 times the equatorial diameter of Earth. What is the equatorial diameter of Earth? Round to the nearest integer.

G
 Jupiter 89,000mi
 11.23 times Earth

U
 what is
 the equatorial
 diameter of
 Earth?

E
 $x = \text{Earth}$
 $89,000 = 11.23x$

S
 $89,000 = 11.23x$
 $\frac{89,000}{11.23} = \frac{11.23x}{11.23}$

$7,925 = x$

S: The equatorial
 diameter of
 Earth is 7,925mi