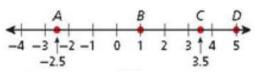
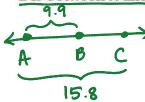
Find AB & distance from A to B 3.

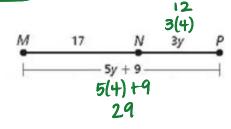


6.

B is between A and C, AC = 15.8, and AB = 9.9. Find BC.

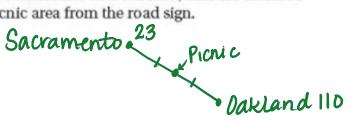


7.



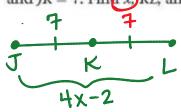
$$MN + NP = MP$$
 $17 + 3y = 5y+9$
 $-2y = -8$
 $y = 4$ So $MP = 29$

Travel If a picnic area is located at the midpoint 8. between Sacramento and Oakland, find the distance to the picnic area from the road sign.



Roseville 5 Sacramento 23 Oakland 110

Multi-Step K is the midpoint of \overline{JL} , JL = 4x - 2, 9. and JK = 7. Fin (x, KL, and JL,



10. Expression \overline{DF} , DE = 2y, and EF = 8y - 3. Find DE, EF, and D

DE = EF

$$2y = 8y^{-3}$$

 $-uy = -3$
 $y = \frac{1}{2}$

DF, DE = 2y, and EF = 8y - 3. Find DE, EF, and DF.

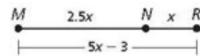
DE = EF

2y = 8y-3

EF =
$$8(\frac{1}{2})-3=1$$

DF = $1+1=2$
 $y=\frac{1}{2}$





* cannot assume that N is the midpt, So you cannot set MN = NR

* Instead, MN+NR =MR

MN=5

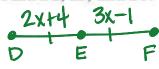
$$2.5x + x = 5x - 3$$

$$3.6x = 6x - 3$$

x = 2, therefore MN = 2.5(2) = 5**Multi-Step** E is the midpoin of \overline{DF} , DE = 2x + 4, and EF = 3x - 1.

17.

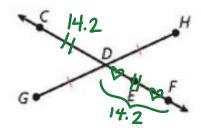
Find DE, EF, and DF.



DE = EF

21.

Use the diagram below. If $\overline{CD} \cong \overline{DF}$ bisects \overline{DF} , and $\overline{CD} = 14.2$. Find \overline{EF} .



EF =7.1

25.

True of False? If M is between A and B, then M bisects \overline{AB} .

Draw a picture to support your answer.



just because m is between A and B does not mean that it has to be directly in the middle

37.

C is the midpoint of \overline{AD} . B is the midpoint of \overline{AC} . BC = 12. What is the length of AD?

- (F) 12
- © 24
- (H) 36

39.

A, B, C, D, and E are collinear points. AE = 34, BD = 16, and AB = BC = CD. What is the length of \overline{CE} ?

- **10**
- G 16

