# Division of Segments & Angles Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Intervention Block\_\_\_\_\_\_

1. Complete the following statements.

M

H

A

T

R

a) MR = 24, HR = \_\_\_\_\_\_ b) TR = 16, AT = \_\_\_\_\_\_

 c) MH = 58, MR = \_\_\_\_\_\_

d) R is the midpoint of \_\_\_\_\_\_ and \_\_\_\_\_\_.

2. Given AB to the right,

A

\_\_\_\_\_a) how many *midpoints* does it have?

B

Use Figure 2 for problems 4-8.

W

A

S

Q

B

-8

0

2

4

8

3. What is the midpoint of AQ?

4. What is the coordinate of the midpoint of WS?

Figure 2

5. What is the coordinate of the midpoint of SB?

6. The coordinate of the midpoint of AR is -3.

 What is the coordinate of point R?

7. The coordinate of the midpoint of ST is 5.

 What is the coordinate of point T?

Use Figure 3 for problems 9-10.

T

B

A

M

Q

9. If TM = 2x + 5, MQ = x + 14, find the value of x.

10. If AM = 4y – 2, AB = 20, find the value of y.

Figure 3

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

Assume for #1-4 the $\vec{EF}$ bisects $<DEG.$

