### Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Partitioning Segments by a Ratio**

|  |
| --- |
| **Partitioning Segments** |

1. A is at 1, and B is at 10. Find the point, T, so that T partitions A to B in a 2:1 ratio.

****

1. A is at -2 and B is at 14. Find the point, T, so that T partitions A to B in a 3:1 ratio.

****

1. A is at -2 and B is at 7. Find the point, T, so that T partitions A to B in a 1:2 ratio.

****

1. A is at -5 and B is at 5. Find the point, T, so that T partitions A to B in a 2:3 ratio.

****

1. A is at -6 and B is at 9. Find the point, T, so that T partitions A to B in a 3:2 ratio.

****

1. A is at 5 and B is at -7. Find the point, T, so that T partitions A to B in a 2:1 ratio.

****

1. A is at 2 and B is at 7. Find the point, T, so that T partitions A to B in a 2:3 ratio.

****

1. A is at -4 and B is at 10. Find the point, T, so that T partitions A to B in a 3:4 ratio.

****

**Challenge: Plot points A and B and then find the coordinates of point T.**

1. Find the coordinates of T that partitions A(2, 3) to B(5, 9) in a 1:2 ratio.



1. Find the coordinates of T that partitions A(1, 4) to B(7, 13) in a 1;2 ratio.



1. Find the coordinates of T that partitions A(-2, 1) to B(8, 11) in a 2:3 ratio.

