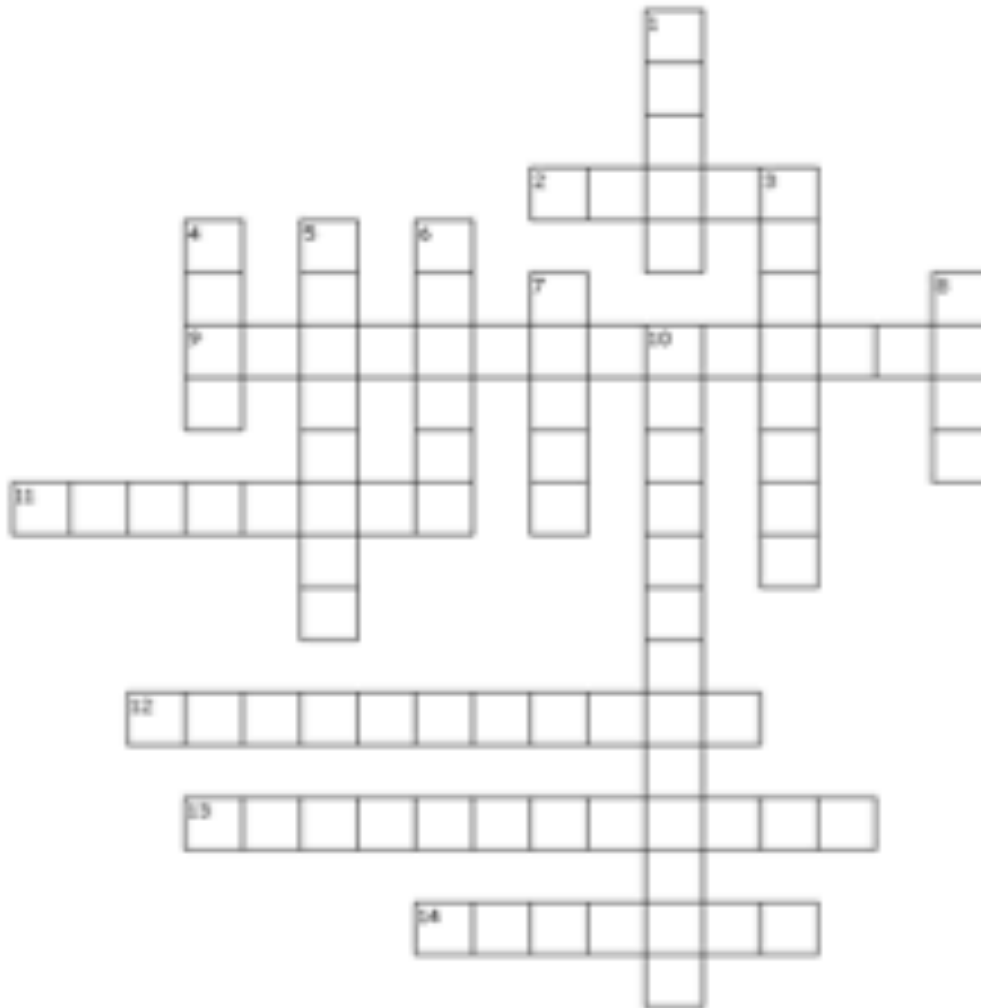


Name \_\_\_\_\_ # \_\_\_\_\_

Date \_\_\_\_\_ Pd. \_\_\_\_\_

### Chapter 12 Crossword



**Across**

- 2. can be found by dividing distance by time
- 9. the operation between speed and time on the magic triangle
- 11. a point or location according to the origin
- 12. the part of the point that is always graphed first
- 13. the value you get when you divide total distance by total time
- 14. When  $d=10m$  and  $s=1m/s$ , time=\_\_\_\_\_seconds.

**Down**

- 1. the metric base unit for distance
- 3. the space between two points
- 4. can be found by dividing distance by speed
- 5. an example is 40m/s North
- 6. the starting point
- 7. can be found by dividing  $p$ 's distance by  $w$ 's distance
- 8. For speed, m/s, km/h, or cm/s
- 10. when object travels the same distance each time interval

## Speed "Magic Triangle" Worksheet

### **PART ONE:**

Draw the Magic Triangle and write the formula for each variable, be sure to include the appropriate unit.

Speed Formula:

Unit: \_\_\_\_\_

Distance Formula:

Unit: \_\_\_\_\_

Time Formula:

Unit: \_\_\_\_\_

### **PART TWO:**

Solve the following problems using the formulas from the "Magic Triangle". Be sure to include a direction when solving for velocity.

**SHOW WORK and UNITS!!!!!!**

1. Distance = 480 meters

Time = 1.4 seconds

Speed = \_\_\_\_\_

2. Speed = 55 m/s

Distance = 80 meters

Time = \_\_\_\_\_

3. Time = 23 seconds

Distance = 66.5 meters East

Velocity = \_\_\_\_\_

4. Speed = 310 m/s

Time = 5.4 seconds

Distance = \_\_\_\_\_