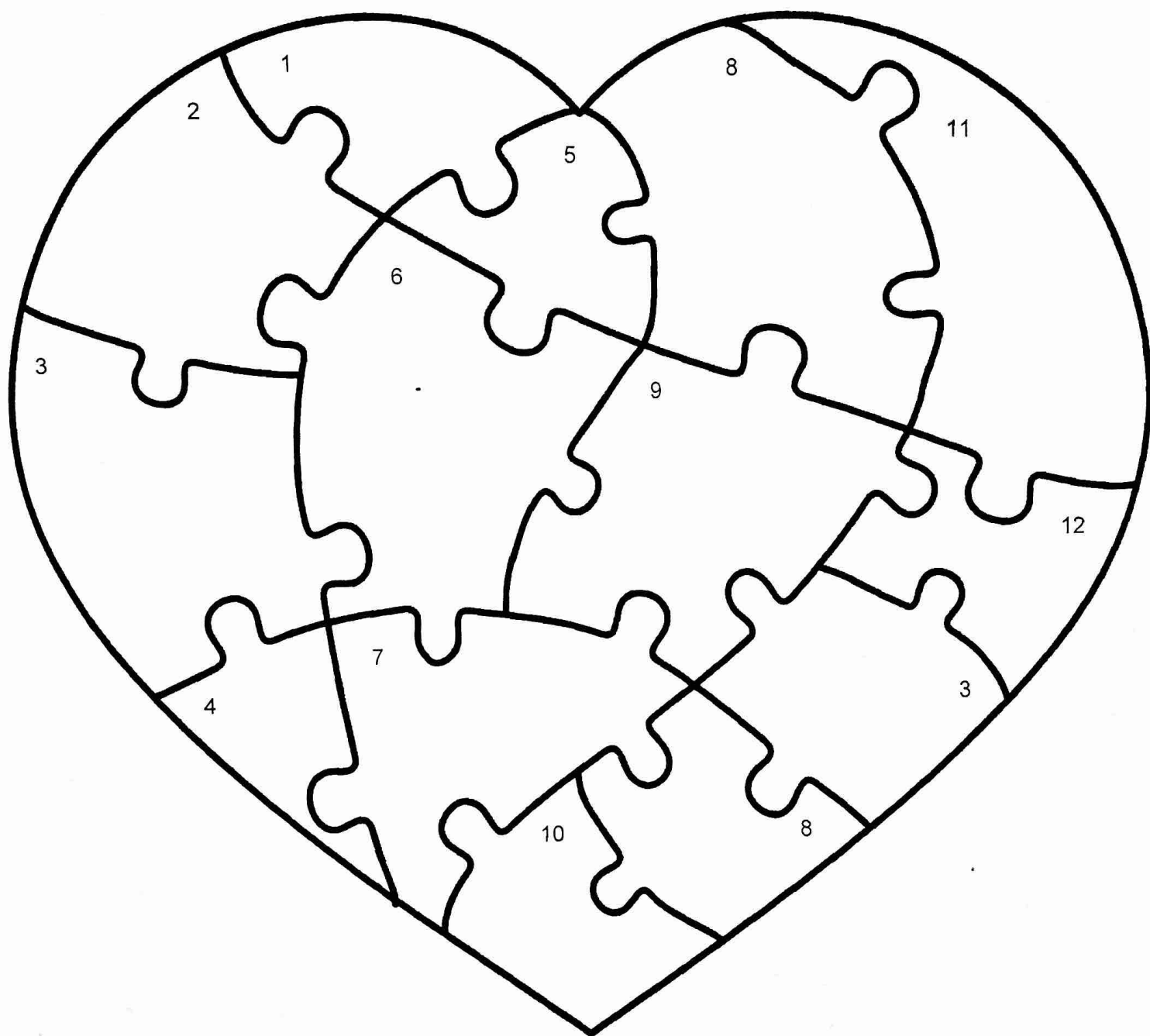


Name: _____

Date: _____



Name: _____

Date: _____

Speed, Velocity, and Acceleration

Determine the name of the compound from the provided formulas. On the coloring page, color the corresponding number the color indicated under the correct answer AND shade the answer you chose.

QUESTION	PROBLEM	A	B	C
1	If a car travels 400m in 20 seconds how fast is it going?	20 m/s Gray	8000 m/s Red	0.05 m/s Black
2	A roller coaster car rapidly picks up speed as it rolls down a slope. As it starts down the slope, its speed is 4 m/s. But 3 seconds later, at the bottom of the slope, its speed is 22 m/s. What is its average acceleration?	-6m/s ² Orange	7.33 m/s ² Black	6 m/s ² Brown
3	If you move 50 meters in 10 seconds, what is your speed?	0.2 m/s Red	500 m/s Pink	5 m/s Yellow
4	You arrive in my class 45 seconds after leaving math which is 90 meters away. How fast did you travel?	2 m/s Red	0.5 m/s Dark Green	4050 m/s Orange
5	A car advertisement states that a certain car can accelerate from rest to 70 m/s in 7 seconds. Find the car's average acceleration.	-10 m/s ² Dark Blue	10 m/s ² Light Blue	490 m/s ² Dark Green
6	It takes Serina 0.25 hours to drive to school. Her route is 16 km long. What is Serina's average speed on her drive to school?	0.016 km/h Light Blue	64 km/h Dark Blue	4 km/h Black
7	How much time will it take for a bug to travel 5 meters across the floor if it is traveling at 1 m/s?	5 s Light Green	0.2 s Dark Green	0.5 s Black
8	A runner covers the last straight stretch of a race in 4 s. During that time, he speeds up from 5 m/s to 9 m/s. What is the runner's acceleration in this part of the race?	0.1 m/s ² Orange	2.25 m/s ² Red	1 m/s ² Dark Green
9	You need to get to class, 200 meters away, and you can only walk in the hallways at about 1.5 m/s. (if you run any faster, you'll be caught for running). How much time will it take to get to your class?	0.0075 s Red	133.3 s Pink	300 s Yellow
10	How far can you get away from your little brother with the squirt gun filled with paint if you can travel at 3 m/s and you have 15s before he sees you?	45 m Purple	5 m Yellow	0.2 m Brown
11	If a Ferrari, with an initial velocity of 10 m/s, accelerates at a rate of 50 m/s/s for 3 seconds, what will its final velocity be?	15 m/s Blue	140 m/s Pink	160 m/s Orange
12	How far can your little brother get if he can travel at 2.5 m/s and in 5 seconds you will discover that his squirt gun has run out of paint?	2 m Dark Green	12.5 m Black	0.5 m Brown