

Name: _____
Rate of Change Homework

Date: _____
Period: _____

Determine whether each rate of change is constant. If it is, find the rate of change and explain what it represents.

1.

Hockey Team's Offense

Games	Goals
1	2
2	4
3	6

2.

Miles Per Gallon

Gallons	Miles
1	28
3	84
5	140
7	196

3.

Cars Washed

Hours	Cars
1	4
2	8
3	12
4	16

4. Writing: Explain why the significance about rate of change when slope of a horizontal line is always zero.

Find the rate of change for each situation.

5. The cost of tickets to the amusement park is \$19.50 for 1 ticket and \$78 for 4 tickets.

6. The late fee is \$2 regardless of the number of days the movie is late.

7. On the trip, Jerry had his cruise control set at 60 mi/h for 4 hours.

8. The contract states that every day past the agreed upon completion date the project is not finished, the price is reduced by \$25.

9. Growing from 1.4 m to 1.6 m in one year

10. Bicycling 3 mi in 15 min and 7 mi in 55 min

12. Reading 8 pages in 9 min and 22 pages in 30 min

13. The cost of four movie tickets is \$30 and the cost of seven tickets is \$52.50.

14. Five seconds after jumping out of the plane, a sky diver is 10,000 ft above the ground. After 30 seconds, the sky diver is 3750 ft above the ground.

***Find 2 videos about rate of change and record the links here: