

6.1 Key Concepts 1 Direct Variation Worked Example

Example: Determine whether the data shown represent a direct variation.

Time(h)	Distance(km)	Ratio
2	120	60
3	180	60
5	300	60
9	560	62

Solution: Find the ratio of distance to time for each of the entries. Since this is not constant, this is not a direct variation.

Practice:

1. Determine whether the data shown represent a direct variation.

Units	Cost(\$)
3	4.50
5	7.50
8	12.00
12	18.00

2. Determine whether the data shown represent a direct variation.

Fuel(L)	Distance(km)
20	140
45	315
70	490
90	675

Answers: 1. Yes. 2. No.