

Constant of Proportionality

Answer Key

Determine the constant of proportionality (k) and write the proportional relationship between x and y .

1)

x	2	3	6	7
y	18	27	54	63

$$k = 9, y = 9x$$

2)

x	10	20	35	45
y	4	8	14	18

$$k = \frac{2}{5}, y = \frac{2}{5}x$$

3)

x	14	21	28	35
y	12	18	24	30

$$k = \frac{6}{7}, y = \frac{6}{7}x$$

4)

x	2	3	8	10
y	8	12	32	40

$$k = 4, y = 4x$$

5)

x	7	8	10	12
y	49	56	70	84

$$k = 7, y = 7x$$

6)

x	18	36	45	72
y	8	16	20	32

$$k = \frac{4}{9}, y = \frac{4}{9}x$$

7)

x	12	16	24	28
y	3	4	6	7

$$k = \frac{1}{4}, y = \frac{1}{4}x$$

8)

x	15	19	22	27
y	15	19	22	27

$$k = 1, y = x$$