

Find the Constant of Proportionality From Tables

Each table below represents a proportional relationship. Determine the constant of proportionality, k , for each table. Write your answer as a whole number, simplified fraction, or decimal.

1

x	3	4	6	7	8	12	15
y	18	24	36	42	48	72	90

$k = \underline{6}$

2

x	2	4	5	6	7	8	11
y	18	36	45	54	63	72	99

$k = \underline{9}$

3

x	12	9	8	7	5	4	3
y	84	63	56	49	35	28	21

$k = \underline{7}$

4

x	12	16	20	28	32	48	60
y	3	4	5	7	8	12	15

$k = \underline{\frac{1}{4}}$

5

x	36	48	84	96	108	132	144
y	3	4	7	8	9	11	12

$k = \underline{\frac{1}{12}}$

6

x	36	30	21	18	15	12	6
y	24	20	14	12	10	8	4

$k = \underline{\frac{2}{3}}$

7

x	8	12	16	20	24	28	40
y	6	9	12	15	18	21	30

$k = \underline{\frac{3}{4}}$

8

x	14	21	28	35	42	49	63
y	8	12	16	20	24	28	36

$k = \underline{\frac{4}{7}}$

9

x	21	18.8	15.2	13	9	6.2
y	10.5	9.4	7.6	6.5	4.5	3.1

$k = \underline{0.5 \text{ or } \frac{1}{2}}$

10

x	$\frac{1}{3}$	$\frac{5}{6}$	1	$\frac{5}{3}$	$\frac{5}{2}$	10
y	$\frac{1}{5}$	$\frac{1}{2}$	$\frac{3}{5}$	1	$\frac{3}{2}$	6

$k = \underline{\frac{3}{5}}$