

Determining Ratio and Proportion

Determine whether each table displays a proportional relationship. If yes, state the value of the constant(k).

(1)

x	y
2	6
3	9
4	12
5	15

(2)

x	y
5	15
10	20
15	35
20	40

(3)

x	y
3	2
6	4
9	6
12	8

(4)

x	y
12	24
9	18
6	12
3	6

(5)

x	y
4	1
6	3
8	4
20	5

(6)

x	y
3	3
6	5
9	7
12	9

(7)

x	y
5	10
20	40
10	20
40	80

(8)

x	y
13	39
14	42
15	45
10	30

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Answers

(1)

x	y
2	6
3	9
4	12
5	15

Yes

$k = 3$

(2)

x	y
5	15
10	20
15	35
20	40

NoNA

(3)

x	y
3	2
6	4
9	6
12	8

Yes

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

(4)

x	y
12	24
9	18
6	12
3	6

Yes

$k = 2$

(5)

x	y
4	1
6	3
8	4
20	5

NoNA

(6)

x	y
3	3
6	5
9	7
12	9

NoNA

(7)

x	y
5	10
20	40
10	20
40	80

Yes

$k = 2$

(8)

x	y
13	39
14	42
15	45
10	30

Yes

$k = 3$