

Name : \_\_\_\_\_

Score : \_\_\_\_\_

# Ratios and Proportions - Relationship

Determine whether the  $x$  and  $y$  values in each table are in proportion. Also, state the constant of proportionality ( $k$ ).

1)

$x$	2	1	5	7
$y$	4	2	10	14

\_\_\_\_\_

\_\_\_\_\_

2)

$x$	3	7	5	8
$y$	6	14	5	16

\_\_\_\_\_

\_\_\_\_\_

3)

$x$	5	1	4	3
$y$	15	3	12	9

\_\_\_\_\_

\_\_\_\_\_

4)

$x$	5	6	8	9
$y$	40	48	64	72

\_\_\_\_\_

\_\_\_\_\_

5)

$x$	-45	35	15	-10
$y$	9	-7	-3	2

\_\_\_\_\_

\_\_\_\_\_

6)

$x$	2	4	8	6
$y$	6	12	24	21

\_\_\_\_\_

\_\_\_\_\_

Name : \_\_\_\_\_

Score : \_\_\_\_\_

# Ratios and Proportions - Relationship

## Answers

1)

x	2	1	5	7
y	4	2	10	14

Proportional

$$k = \frac{1}{2}$$

2)

x	3	7	5	8
y	6	14	5	16

Not proportional

Not applicable

3)

x	5	1	4	3
y	15	3	12	9

Proportional

$$k = \frac{1}{3}$$

4)

x	5	6	8	9
y	40	48	64	72

Proportional

$$k = \frac{1}{8}$$

5)

x	-45	35	15	-10
y	9	-7	-3	2

Proportional

$$k = -5$$

6)

x	2	4	8	6
y	6	12	24	21

Not proportional

Not applicable