

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 |

$$k = \underline{\hspace{2cm}}$$

2

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

$$k = \underline{\hspace{2cm}}$$

3

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

$$k = \underline{\hspace{2cm}}$$

4

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

$$k = \underline{\hspace{2cm}}$$

5

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

$$k = \underline{\hspace{2cm}}$$

6

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

$$k = \underline{\hspace{2cm}}$$

7

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

$$k = \underline{\hspace{2cm}}$$

8

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

$$k = \underline{\hspace{2cm}}$$

9

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

$$k = \underline{\hspace{2cm}}$$

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 |

$$k = \underline{\hspace{2cm}}$$