

7.5 Extra Practice

I can find the constant of proportionality using an equation and I can represent proportional relationships by writing equations. Show all your work on this paper.

1) $y = 21; x = 3$

a) Constant of Proportionality:

b) Equation:

2) $y = 36; x = 72$

a) Constant of Proportionality:

b) Equation:

7.5 I can tell whether x and y show direct variation. Why??

3) $4x = y$ YES or NO *Why?*

4) $y + 2 = x$ YES or NO *Why?*

5) $x = \frac{1}{5}y$ YES or NO *Why?*

6) $y = x$ YES or NO *Why?*

7) Suppose y varies directly as x .
If $y = 12$ when $x = 4$, find x when $y = 27$.

8) Suppose y varies directly as x .
If $y = 2$ when $x = 18$, find y when $x = 54$.

9) Suppose y varies directly as x . If $x = 24$ when $y = 8$, find y when $x = 3$.