

Practice Worksheet**Inverse Variation**

Solve. Assume that y varies inversely as x .

1. If $y = -4$ when $x = 2$, find y when $x = -6$.
2. If $y = 16$ when $x = 4$, find y when $x = 6$.
3. If $y = -5$ when $x = 12.5$, find x when $y = 15$.
4. If $y = 7$ when $x = 4$, find y when $x = 12$.
5. If $y = 27$ when $x = 12$, find x when $y = -12$.
6. If $y = 6$ when $x = -4$, find x when $y = \frac{12}{5}$.
7. If $y = 60$ when $x = 80$, find x when $y = -20$.
8. If $y = 40$ when $x = 16$, find y when $x = 10$.
9. If $y = 15$ when $x = -18$, find y when $x = -12$.
10. If $y = 75$ when $x = 25$, find x when $y = 25$.
11. If $y = 0.8$ when $x = 2.4$, find y when $x = 1.6$.
12. If $y = \frac{3}{4}$ when $x = 12$, find y when $x = 24$.
13. If $y = -30$ when $x = -20$, find y when $x = -25$.
14. If $y = \frac{1}{2}$ when $x = \frac{2}{3}$, find y when $x = -\frac{1}{9}$.