Direct Variation

Find the constant of variation.

1)
$$y = 14x$$

2)
$$y = 2x$$

3)
$$y = 6x$$

4)
$$y = 15x$$

5)
$$y = \frac{8}{13}x$$

6)
$$y = 3x$$

7)
$$y = 13x$$

8)
$$y = 11x$$

9)
$$y = 4x$$

10)
$$y = 9x$$

Solve each problem involving direct variation.

- 11) If y varies directly as x, and $y = \frac{5}{2}$ when x = 15, find y when x = 3.
- 12) If y varies directly as x, and y = 6 when x = 5, find y when x = 10.

- 13) If y varies directly as x, and y = 14 when x = 3, find y when x = 6.
- 14) If y varies directly as x, and y = 3 when x = 18, find y when x = 9.

- 15) If y varies directly as x, and y = 15 when x = 9, find y when x = 3.
- 16) If y varies directly as x, and y = 3 when x = 5, find y when x = 15.

- 17) If y varies directly as x, and y = 15 when x = 3, find y when x = 4.
- 18) If y varies directly as x, and y = 2 when x = 4, find y when x = 20.

- 19) If y varies directly as x, and y = 3 when x = 7, find y when x = 14.
- 20) If y varies directly as x, and y = 16 when x = 2, find y when x = 4.

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-1-

Solve each problem involving direct variation.

- 11) If y varies directly as x, and $y = \frac{5}{2}$ when x = 15, find y when x = 3.
 - $\frac{1}{2}$

12) If y varies directly as x, and y = 6 when x = 5, find y when x = 10.

12

13) If y varies directly as x, and y = 14 when x = 3, find y when x = 6.

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14) If y varies directly as x, and y = 3 when x = 18, find y when x = 9.

 $\frac{3}{2}$

15) If y varies directly as x, and y = 15 when x = 9, find y when x = 3.

5

16) If y varies directly as x, and y = 3 when x = 5, find y when x = 15.

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17) If y varies directly as x, and y = 15 when x = 3, find y when x = 4.

20

18) If y varies directly as x, and y = 2 when x = 4, find y when x = 20.

10

19) If y varies directly as x, and y = 3 when x = 7, find y when x = 14.

6

20) If y varies directly as x, and y = 16 when x = 2, find y when x = 4.

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