What Goes Up Must Come Down (Or Something Like That)

- 1. If y varies directly with x, and the constant of variation is k = 7, find y when x = 4.
- 6. If y varies directly with x, and y = 21 when x = 3, find y when x = 1.
- 2. If y varies directly with x, and y = 15 when x = 3, find y when x = 4.
- 7. If y varies jointly as the product of x and z, and y = 100 when x = 10 and z = 20, find y when x = 4 and z = 8.
- 3. If y varies directly with x, and y = 13 when x = 39, find y when x = 18.
- 8. If y varies jointly as the product of x and z, and y = 14 when x = 1 and z = 2, find y when x = 2 and z = 3.
- 4. If y varies directly with x, and y = 5 when x = 20, find y when x = 16.
- 9. If y varies directly with x and inversely with z, and y = 3 when x = 24 and z = 4, find y when x = 12 and z = 3.
- 5. If y varies directly with x, and the constant of variation is k = 32, find y when x = 8.
- 10. If y varies directly with x and inversely with z, and y = 1 when x = 1000 and z = 10, find y when x = 30 and z = 1.

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