

Constant of Proportionality in Word Problems

Name: _____

Tell whether each represents a direct proportion. If so, identify the constant of proportionality.

- | | |
|---|-------|
| 1. Zoe traveled 725 miles in 8 hours at a constant rate of speed. | _____ |
| 2. LaShay can type 1500 words in 30 minutes. | _____ |
| 3. There are 500 calories for 5 servings of candy. | _____ |
| 4. There are 50 students on 2 buses. | _____ |
| 5. A phone call to Europe costs \$2.50 for the connection and \$0.30 per minute. | _____ |
| 6. A 15-kg bag of strawberries costs \$8. (Find cost per kg) | _____ |
| 7. John makes \$40 every 2 hours plus any commission from his sales. | _____ |
| 8. Enrique bought 5 burgers for \$15. | _____ |
| 9. The football team scored 35 points on 5 touchdowns. | _____ |
| 10. A computer technician charges \$75 for a service call and \$50 for each hour. | _____ |

Constant of Proportionality in Equations

Name: _____

Tell whether each represents a direct proportion. If so identify the constant of proportionality.

- | | | | |
|------------------|-------|-------------------------|-------|
| 1. $2.5y = 5x$ | _____ | 2. $y = 3x + 4$ | _____ |
| 3. $y = 7.5x$ | _____ | 4. $y = 8x - 12$ | _____ |
| 5. $y = -4x$ | _____ | 6. $y = 9.3x$ | _____ |
| 7. $y = 13x + 1$ | _____ | 8. $y = -2\frac{1}{2}x$ | _____ |
| 9. $y = -6x + 4$ | _____ | 10. $5y = 10x$ | _____ |

Identifying Unit Rate/ Constant of Proportionality Assessment

Name: _____

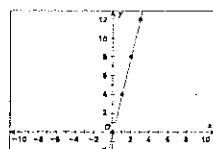
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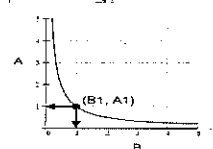
- There are 50 chairs split equally among 2 rows. _____
- A plumber charges \$70 to come out and \$45 for each additional hour. _____

- $y = 7x$ _____
- $y = 3.5x + 12$ _____

- | | | | | |
|---|---|---|---|----|
| X | 0 | 1 | 2 | 3 |
| y | 3 | 6 | 9 | 12 |

- | | | | |
|---|---|---|---|
| X | 2 | 3 | 4 |
| y | 4 | 6 | 8 |

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Identifying Unit Rate/ Constant of Proportionality Assessment

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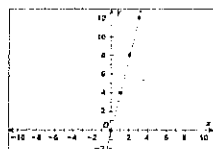
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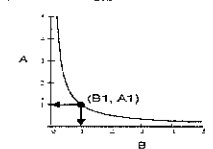
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Identifying Unit Rate/ Constant of Proportionality Assessment

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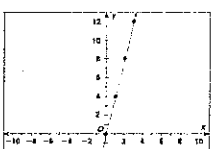
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