Connect Four Game Cards

**Patterning and Algebra**

**Unit 2 Line Master 4a**

**Simplifying Expressions**

|  |  |
| --- | --- |
| 7(*a* + 2) + 5*a* − 1 | 5*b* + 3 − *b* + 7 |
| 2(3*c*) + 4(5*c*) | 5(6*d*) + 5*d* |
| 2(*e* + 4) + 3(*e* + 3) | *f* + 11 + 4(*f* + 1) |
| 9*g* + 2*g* − *g* + 6 | 3*h* + 2 + 4*h* − 1 |
| 7(*j* + 3) + *j* − 3 | *k* + 14 + 10(*k* + 1) |
| 3*m* + 2*n* + 6*m* + *n* | 4(5*p*) + 9 + 2*p* + 1 |
| 7(3 + *r*) + 2(*r* + 3) | 5*s* + 7 − 4 + 2*s* + 3 |
| 2*t* + 6 + *t* − 2 + *t* | 4(3*u*) + 5*v* + 3*u* + 2(8*v*) |

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**Patterning and Algebra**

**Unit 2 Line Master 4b**

**Solving Equations**

|  |  |
| --- | --- |
| *a* − 7 = 15 | 3*b* = 39 |
| 2*c* + 5 = 13 | 4*d* − 9 = 31 |
| 5*e* + 2 + 3*e* + 1 = 40 + 3 | 3(2*f* + 1) + 2(*f* + 3) = 52 |
| 2(7*g*) + 6(2*g*) = 100 − 22 | 62 = 2*h* + 5 + 4*h* − 5 |
| 7(*j* + 1) + 3(*j* + 4) = 25 + 34 | 11*k* + 16 + 2*k* − 9 = 8 × 9 |
| 5*m* + 9 + 2(*m* + 1) − 7 = 8 × 11 | 3(6*n*) + 3(2*n*) = 12 × 14 |
| *p* + 2(*p* + 3) − 5 = 70 − 18 | 6*q* + 3 = 3*q* + 4 × 6 |
| 8(*r* + 1) + 3(2*r* + 1) = 13 × 3 | 5*s* + 2*s* = 10 + 4 × 8 |

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**Patterning and Algebra**

**Unit 2 Line Master 4c**

**Skill-Testing Questions**

|  |  |
| --- | --- |
| 2 × (9 − 4) + 42 − 3  | 35 ÷ (6 − 1) × 23 + 1 |
| 5 + 3 × 2 + 32 × (13 − 9) | 22 × (12 − 7) ÷ (7 − 5) × 3 |
| 52 × (6 − 2) ÷ 10 | (3 + 1) × 2 + 22 |

 Connect Four Game Cards

**Patterning and Algebra**

**Unit 2 Line Master 4d**

**Simplifying Expressions: Answers**

|  |  |
| --- | --- |
| 7(*a* + 2) + 5*a* − 1 = 12*a* + 13 | 5*b* + 3 − *b* + 7 = 4*b* + 10 |
| 2(3*c*) + 4(5*c*) = 26*c* | 5(6*d*) + 5*d* = 35*d* |
| 2(*e* + 4) + 3(*e* + 3) = 5*e* + 17 | *f* + 11 + 4(*f* + 1) = 5*f* + 15 |
| 9*g* + 2*g* − *g* + 6 = 10*g* + 6 | 3*h* + 2 + 4*h* − 1 = 7*h* + 1 |
| 7(*j* + 3) + *j* − 3 = 8*j* + 18 | *k* + 14 + 10(*k* + 1) = 11*k* + 24 |
| 3*m* + 2*n* + 6*m* + *n* = 9*m* + 3*n* | 4(5*p*) + 9 + 2*p* + 1 = 22*p* + 10 |
| 7(3 + *r*) + 2(*r* + 3) = 9*r* + 27 | 5*s* + 7 − 4 + 2*s* + 3 = 7*s* + 6 |
| 2*t* + 6 + *t* − 2 + *t* = 4*t* + 4 | 4(3*u*) + 5*v* + 3*u* + 2(8*v*) = 15*u* + 21*v*  |

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**Patterning and Algebra**

**Unit 2 Line Master 4e**

**Solving Equations: Answers**

|  |  |
| --- | --- |
| *a* − 7 = 15*a* = 22 | 3*b* = 39*b* = 13 |
| 2*c* + 5 = 13*c* = 4 | 4*d* − 9 = 31*d* = 10 |
| 5*e* + 2 + 3*e* + 1 = 40 + 3*e* = 5 | 3(2*f* + 1) + 2(*f* + 3) = 52*f* = 2 |
| 2(7*g*) + 6(2*g*) = 100 − 22*g* = 3 | 62 = 2*h* + 5 + 4*h* − 5*h* = 6 |
| 7(*j* + 1) + 3(*j* + 4) = 25 + 34*j* = 4 | 11*k* + 16 + 2*k* − 9 = 8 × 9*k* = 5 |
| 5*m* + 9 + 2(*m* + 1) − 7 = 8 × 11*m* = 12 | 3(6*n*) + 3(2*n*) = 12 × 14*n* = 7 |
| *p* + 2(*p* + 3) − 5 = 70 − 18*p* = 17 | 6*q* + 3 = 3*q* + 4 × 6*q* = 7 |
| 8(*r* + 1) + 3(2*r* + 1) = 13 × 3*r* = 2 | 5*s* + 2*s* = 10 + 4 × 8*s* = 6 |

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**Patterning and Algebra**

**Unit 2 Line Master 4f**

**Skill-Testing Questions: Answers**

|  |  |
| --- | --- |
| 2 × (9 − 4) + 42 − 3 = 23 | 35 ÷ (6 − 1) × 23 + 1= 57 |
| 5 + 3 × 2 + 32 × (13 − 9) = 47 | 22 × (12 − 7) ÷ (7 − 5) × 3 = 30 |
| 52 × (6 − 2) ÷ 10 = 10 | (3 + 1) × 2 + 22 = 12 |