Tools for the ESOL Classroom

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**Math Graphic Organizer Templates**



**Institute for the Professional Development of Adult Educators**

Math Graphic Organizer Templates

Tools for the ESOL Classroom

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Templates for the Classroom

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## Base 10 Blocks Template

## 

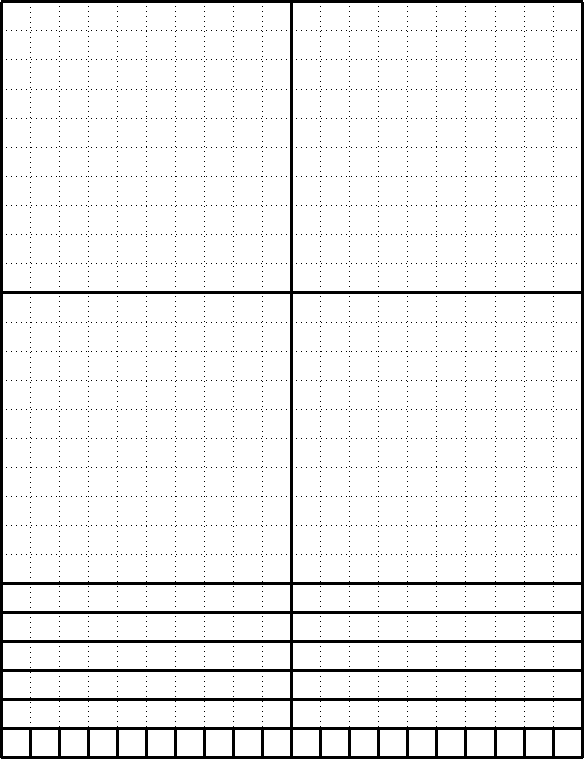
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## **Base 10 Blocks** - Cut along the solid lines!



## Fraction Tiles

|  |
| --- |
| 1 |

|  |  |
| --- | --- |
| 1  2 | 1  2 |

|  |  |  |
| --- | --- | --- |
| 1  3 | 1  3 | 1  3 |

|  |  |  |  |
| --- | --- | --- | --- |
| 1  4 | 1  4 | 1  4 | 1  4 |

|  |  |  |  |  |
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| 1  5 | 1  5 | 1  5 | 1  5 | 1  5 |

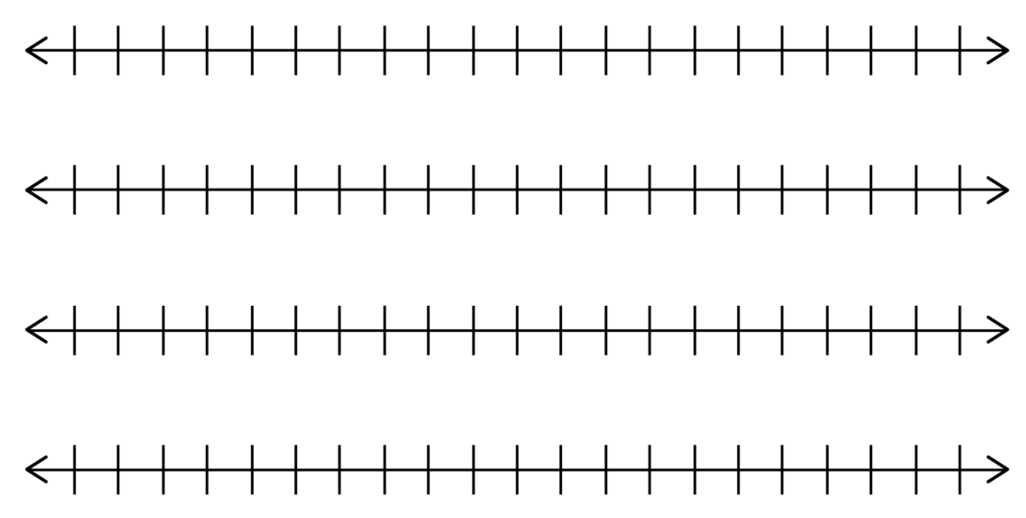
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| 1  6 | 1  6 | 1  6 | 1  6 | 1  6 | 1  6 |

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| 1  8 | 1  8 | 1  8 | 1  8 | 1  8 | 1  8 | 1  8 | 1  8 |

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| 1  10 | 1  10 | 1  10 | 1  10 | 1  10 | 1  10 | 1  10 | 1  10 | 1  10 | 1  10 |

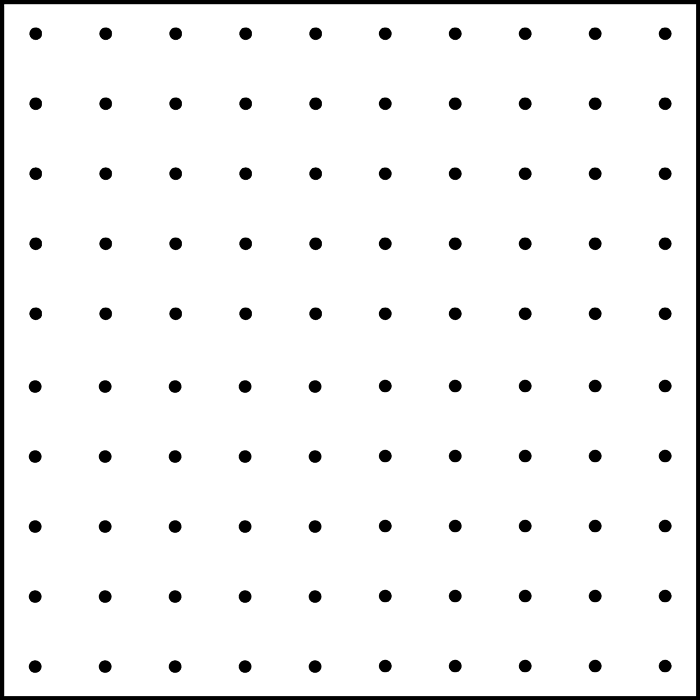
## Fraction Blocks

## Number Line



## Pattern Block Template

## Geoboard Template



## Algebra Tile Template

**X**



## Algebra Tile Template

## Dice

## Graph Paper

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## Centimeter Grid Paper

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## Graphic Organizer for Mathematical Problem Solving

|  |  |
| --- | --- |
| Main Idea (in your own words) | |
| Question | Draw a Picture/Graph/Table |
| Pertinent Facts | Irrelevant Information |
| Relationship Sentence (no numbers) | |
| Equation (number sentence) | |
| Estimation (without computing) | |
| Computation | |
| Answer Sentence | |

# Problem Solving Graphic Organizer – K-N-W-S

|  |  |  |  |
| --- | --- | --- | --- |
| K | N | W | S |
| What facts do I KNOW from the information in the problem? | What information do I NOT need? | What does the problem WANT me to find? | What STRATEGY  or operations will I use to solve the problem? |

|  |  |  |  |
| --- | --- | --- | --- |
| **K** | **N** | **W** | **S** |
|  |  |  |  |

Adapted from *Teaching Reading in Mathematics* by Mary Lee Barton and Clare Heidema

## Verbal and Visual Word Association (Barton & Heidema, 2002)

|  |  |
| --- | --- |
| Vocabulary Term(s) | Visual Representation |
| Definitions(s) | Personal Association or a Characteristic |

## Vocabulary – Frayer Model

