# **Game Masters**



| Factor Captor 1–110 Grid |     |     |     |     | 1.2 |     |     |     |     |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| 11                       | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| 21                       | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| 31                       | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| 41                       | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  |
| 51                       | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| 61                       | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  |
| 71                       | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| 81                       | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  |
| 91                       | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| 101                      | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |

#### What's My Attribute Rule?

#### Directions

Name

- 1. Label one sheet of paper These fit the rule.
- 2. Label another sheet of paper These do NOT fit the rule.
- Take turns. Roll the six-sided die once. The player with the lowest number is the first "Rule Maker."
- 4. The Rule Maker shuffles and places the Attribute Rule Cards facedown.
- The Rule Maker turns over the top Attribute Rule Card, but does not show it to the other players or tell them what the rule is. For example: large shapes, but not triangles.
- 6. The Rule Maker chooses 3 or 4 attribute blocks that fit the rule on the card. The Rule Maker puts them on the sheet labeled *These fit the rule*.



# The Rule Maker chooses 3 or 4 blocks that do NOT fit the rule. The Rule Maker puts them on the sheet labeled These do NOT fit the rule.

Time

Date



- The other players take turns choosing a block that they think might fit the rule and placing it on that sheet.
- and placing it on that sheet. 9. If the Rule Maker says "No," the player puts the block on the correct sheet. If "Yes," the player gets to suggest what the rule might be. The Rule Maker then tells the player whether his or her rule is correct.

**Game Masters** 

 The round continues until someone figures out the rule. That person becomes the Rule Maker for the next round.

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Time

### **Algebra Election Gameboard**









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\*If your marker does not fit on the state, put your marker on the state's name.

# Angle Tangle Record Sheet

| Round       | Angle | Estimated<br>measure | Actual<br>measure | Score |
|-------------|-------|----------------------|-------------------|-------|
| 1           |       | 0                    | O                 |       |
| 2           |       | 0                    | 0                 |       |
| 3           |       | 0                    | O                 |       |
| 4           |       | 0                    | 0                 |       |
| 5           |       | 0                    | O                 |       |
| Total Score |       |                      |                   |       |

Date





Time

### **Baseball Multiplication Game Mat**



| Hitting Table<br>1-to-6 Facts |                    |  |  |  |
|-------------------------------|--------------------|--|--|--|
| 1 to 9                        | Out                |  |  |  |
| 10 to 19                      | Single (1 base)    |  |  |  |
| 20 to 29                      | Double (2 bases)   |  |  |  |
| 30 to 35                      | Triple (3 bases)   |  |  |  |
| 36                            | Home Run (4 bases) |  |  |  |

| Inning |      | 1 | 2 | 3 | Total |
|--------|------|---|---|---|-------|
| Team 1 | Outs |   |   |   |       |
|        | Runs |   |   |   |       |
| Team 2 | Outs |   |   |   |       |
|        | Runs |   |   |   |       |

| Inning |      | 1 | 2 | 3 | Total |
|--------|------|---|---|---|-------|
| Team 1 | Outs |   |   |   |       |
|        | Runs |   |   |   |       |
| Team 2 | Outs |   |   |   |       |
|        | Runs |   |   |   | ,     |

| Inning |      | 1 | 2 | 3 | Total |
|--------|------|---|---|---|-------|
| Team 1 | Outs |   |   |   |       |
|        | Runs |   |   |   |       |
| Team 2 | Outs |   |   |   |       |
|        | Runs |   |   |   |       |

| Name          |          | Date      | Time     |
|---------------|----------|-----------|----------|
| Build-It Card | Deck     |           |          |
| <u>5</u>      | <u>1</u> | <u>11</u> | <u>1</u> |
| 9             | 3        | 12        | 12       |
| <u>7</u>      | <u>3</u> | 1         | <u>1</u> |
| 12            | 8        | 4         | 5        |
| <u>2</u>      | <u>3</u> | <u>4</u>  | <u>3</u> |
| 3             | 7        | 7         | 4        |
| <u>3</u>      | <u>4</u> | <u>7</u>  | <u>5</u> |
| 5             | 5        | 9         | 6        |

### Name

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Time











### **Coordinate Search**

You are sailing a yacht in the Caribbean Sea. Unfortunately, you are caught in a tropical storm, and your navigation charts are damaged. You know that there are several physical landmarks to watch for. All the landmarks are located northeast of your current position in one quadrant of the damaged charts.

You will need to locate the following physical landmarks:





Date

Use the tables from the navigation charts you salvaged. Graph the points of the missing physical landmarks onto the coordinate grid on *Math Masters*, page 448.

Here are some clues to help you:

The center of a large island is at (13,13). The center of another large island is at (2,6). The center of a small island is at (5,13). The center of the second small island is at (10,8).

| Physica                 | l Landmarks      | Physical                | Landmarks        |
|-------------------------|------------------|-------------------------|------------------|
| <i>X</i> -axis<br>value | Number of points | <i>Y</i> -axis<br>value | Number of points |
| 0                       | 1                | 0                       | 0                |
| 1                       | 2                | 1                       | 0                |
| 2                       | 3                | 2                       | 3                |
| 3                       | 3                | 3                       | 2                |
| 4                       | 3                | 4                       | 3                |
| 5                       | 3                | 5                       | 3                |
| 6                       | 1                | 6                       | 3                |
| 7                       | 0                | 7                       | 3                |
| 8                       | 0                | 8                       | 4                |
| 9                       | 2                | 9                       | 1                |
| 10                      | 5                | 10                      | 1                |
| 11                      | 4                | 11                      | 1                |
| 12                      | 4                | 12                      | 3                |
| 13                      | 4                | 13                      | 6                |
| 14                      | 2                | 14                      | 4                |
| 15                      | 1                | 15                      | 1                |



### 450

### Credits/Debits Game (Advanced Version) Record Sheets

| Game 1 |              |                         |                 |            |  |  |
|--------|--------------|-------------------------|-----------------|------------|--|--|
|        | <u>Chart</u> | Chang                   | End and         |            |  |  |
|        | Start        | Addition or Subtraction | Credit or Debit | Next Start |  |  |
| 1      |              |                         |                 |            |  |  |
| 2      |              |                         |                 |            |  |  |
| 3      |              |                         |                 |            |  |  |
| 4      |              |                         |                 |            |  |  |
| 5      |              |                         |                 |            |  |  |
| 6      |              |                         |                 |            |  |  |
| 7      |              |                         |                 |            |  |  |
| 8      |              |                         |                 |            |  |  |
| 9      |              |                         |                 |            |  |  |
| 10     |              |                         |                 |            |  |  |

| $\left( \right)$ | Game 2 |                         |                 |            |  |  |
|------------------|--------|-------------------------|-----------------|------------|--|--|
|                  |        | Chang                   | End and         |            |  |  |
|                  | Start  | Addition or Subtraction | Credit or Debit | Next Start |  |  |
| 1                |        |                         |                 |            |  |  |
| 2                |        |                         |                 |            |  |  |
| 3                |        |                         |                 |            |  |  |
| 4                |        |                         |                 |            |  |  |
| 5                |        |                         |                 |            |  |  |
| 6                |        |                         |                 |            |  |  |
| 7                |        |                         |                 |            |  |  |
| 8                |        |                         |                 |            |  |  |
| 9                |        |                         |                 |            |  |  |
| 10               |        |                         |                 |            |  |  |





#### Name

Time



| Table 1: Runs  |           |  |  |  |
|----------------|-----------|--|--|--|
| Value of Roll  | Move Ball | Chances of Gaining on the Ground             |  |  |
| 1              | -15 yd    | -15 yards: 1 out of 6, or about 17%          |  |  |
| 2 to 6         | +10 yd    | 10 yards or more: 5 out of 6, or about 83%   |  |  |
| 8 to 81        | +20 yd    | 20 yards or more: 4 out of 6, or about 67%   |  |  |
| in the 100s    | +30 yd    | 30 yards or more: 13 out of 36, or about 36% |  |  |
| in the 1,000s  | +40 yd    | 40 yards or more: 7 out of 36, or about 19%  |  |  |
| in the 10,000s | +50 yd    | 50 yards: 1 out of 18, or about 6%           |  |  |

| Table 2: Kicks |           |  |  |  |  |
|----------------|-----------|--|--|--|--|
| Value of Roll  | Move Ball | Chances of Kicking                         |  |  |  |
| 1              | +10 yd    | 10 yards or more: 6 out of 6, or 100%      |  |  |  |
| 2              | +20 yd    | 20 yards or more: 5 out of 6, or about 83% |  |  |  |
| 3              | +30 yd    | 30 yards or more: 4 out of 6, or about 67% |  |  |  |
| 4              | +40 yd    | 40 yards or more: 3 out of 6, or about 50% |  |  |  |
| 5              | +50 yd    | 50 yards or more: 2 out of 6, or about 33% |  |  |  |
| 6              | +60 yd    | 60 yards: 1 out of 6, or about 17%         |  |  |  |

### Factor Bingo Game Mat

Fill in the squares on the game mat grid with any 25 numbers from 2–90. Write one number in each square on the grid. Every square must contain a different number. Be careful to mix the numbers so they are not in order on the grid.

| _  |    |    |    |    |    |    |    |    | _  |
|----|----|----|----|----|----|----|----|----|----|
|    |    |    |    |    |    |    |    |    |    |
| _  |    |    |    |    |    |    |    |    |    |
| _  |    |    |    |    |    |    |    |    |    |
| _  |    |    |    |    |    |    |    |    |    |
| _  |    |    |    |    |    |    |    |    |    |
|    |    |    |    |    |    |    |    |    |    |
| 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  |    |
| 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 |
| 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 |
| 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 |
| 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 |
| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 |
| 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 |
| 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 |



Time

| 1  | 2  | 2  | 2  | 2  | 2  |
|----|----|----|----|----|----|
| 2  | 3  | 3  | 3  | 3  | 3  |
| 3  | 4  | 4  | 4  | 4  | 5  |
| 5  | 5  | 5  | 6  | 6  | 7  |
| 7  | 8  | 8  | 9  | 9  | 10 |
| 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 18 | 20 | 21 | 22 | 24 |
| 25 | 26 | 27 | 28 | 30 | 32 |

# **Factor Captor Grid 1**





∕1<u>⊾</u>2



Name



| 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| 31  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| 41  | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  |
| 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| 61  | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  |
| 71  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| 81  | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  |
| 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |

### *Factor Captor* 1–110 Grid

Date



# First to 100 Problem Cards

Т

| How many inches<br>are there in <i>x</i> feet?<br>How many<br>centimeters are<br>there in <i>x</i> meters?                  | How many quarts<br>are there in<br><i>x</i> gallons?           | What is the<br>smallest number of<br><i>x</i> 's you can add to<br>get a sum greater<br>than 100?             | Is 50 * x greater<br>than 1,000?<br>Is $\frac{x}{10}$ less than 1?   |
|---|--|---|--|
| 1   | 2  | 3   | 4  |
| $\frac{1}{2} \text{ of } x = ?$<br>$\frac{1}{10} \text{ of } x = ?$   | 1 - x = ?<br>x + 998 = ?                                       | If <i>x</i> people share<br>1,000 stamps<br>equally, how many<br>stamps will each<br>person get?              | What time will it be<br><i>x</i> minutes from now?<br>What time was it<br><i>x</i> minutes ago?                    |
| 5   | 6  | 7   | 8  |
| It is 102 miles to<br>your destination.<br>You have gone<br><i>x</i> miles. How many<br>miles are left?                     | What whole or mixed<br>number equals<br><i>x</i> divided by 2? | Is <i>x</i> a prime or a composite number?<br>Is <i>x</i> divisible by 2?                                     | The time is<br>11:05 A.M. The train<br>left <i>x</i> minutes ago.<br>What time did the<br>train leave?             |
| 9   | 10   | 11  | 12   |
| Bill was born in<br>1939. Freddy was<br>born the same day,<br>but <i>x</i> years later.<br>In what year was<br>Freddy born? | Which is larger:<br>2 * <i>x</i> or <i>x</i> + 50?             | There are <i>x</i> rows<br>of seats. There are<br>9 seats in each row.<br>How many seats<br>are there in all? | Sargon spent<br><i>x</i> cents on apples.<br>If she paid with a<br>\$5 bill, how much<br>change should she<br>get? |
| 13  | 14   | 15  | 16   |

Date

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Т

Time

# First to 100 Problem Cards continued

| The temperature<br>was 25°F. It dropped<br><i>x</i> degrees.<br>What was the new<br>temperature? | Each story in a<br>building is 10 ft high.<br>If the building has <i>x</i><br>stories, how tall<br>is it?                         | Which is larger:<br>2 * x or $\frac{100}{x}$ ?  | 20 * <i>x</i> = ?   |
|--|---|---|---|
| 17   | 18  | 19  | 20  |
| Name all the whole-number factors of <i>x</i> .  | Is <i>x</i> an even or an<br>odd number?<br>Is <i>x</i> divisible by 9?   | Shalanda was<br>born on a Tuesday.<br>Linda was born<br><i>x</i> days later.<br>On what day of<br>the week was<br>Linda born? | Will had a quarter<br>plus <i>x</i> cents. How<br>much money did he<br>have in all?                                   |
| 21   | 22  | 23  | 24  |
| Find the perimeter<br>and area of this<br>square.<br>x  cm                                       | What is the median<br>of these weights?<br>5 pounds<br>21 pounds<br><i>x</i> pounds   | x° ?°   | $x^2 = ?$<br>50% of $x^2 = ?$   |
| 25   | What is the range?<br>26  | 27  | 28  |
| (3x + 4) - 8 = ?   | <i>x</i> out of 100 students<br>voted for Ruby.<br>Is this more than<br>25%, less than 25%,<br>or exactly 25% of<br>the students? | There are 200<br>students at Wilson<br>School. <i>x</i> % speak<br>Spanish.<br>How many students<br>speak Spanish?            | People answered a<br>survey question<br>either Yes or No.<br><i>x</i> % answered Yes.<br>What percent<br>answered No? |
| 29   | 30  | 31  | 32  |

# First to 100 Record Sheet

### **Example:** x = 30

| Card<br>Number | Number Model/<br>Response | Score |
|----------------|---------------------------|-------|
| 20             | 20 * 30 = 600             | 30    |

x = \_\_\_\_\_

| Card<br>Number | Number Model/<br>Response | Score |
|----------------|---------------------------|-------|
|                |                           |       |
|                |                           |       |
|                |                           |       |
|                |                           |       |
|                |                           |       |
|                |                           |       |
|                |                           |       |
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|                |                           |       |
|                |                           |       |
|                |                           |       |



П



Time



### Fraction Capture Record Sheet



### Player 1

| Round | Dice Roll | Fraction | Fraction Addition Expression |
|-------|-----------|----------|------------------------------|
| 1     |           |          |                              |
| 2     |           |          |                              |
| 3     |           |          |                              |
| 4     |           |          |                              |
| 5     |           |          |                              |



Name

Date

Time

### **Fraction Capture Record Sheet**

Player 2

| Round | Dice Roll | Fraction | Fraction Addition Expression |
|-------|-----------|----------|------------------------------|
| 1     |           |          |                              |
| 2     |           |          |                              |
| 3     |           |          |                              |
| 4     |           |          |                              |
| 5     |           |          |                              |



| Fraction Top | Fraction Top-It Cards 2 |             |          |  |  |
|--------------|-------------------------|-------------|----------|--|--|
| 2            |                         |             |          |  |  |
|              |                         | <br>!<br>!  |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         | i<br>L      |          |  |  |
|              |                         | -<br>-<br>- |          |  |  |
|              |                         | <br> <br>   |          |  |  |
|              |                         |             |          |  |  |
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|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
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|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             | J        |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             | <u> </u> |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         |             |          |  |  |
|              |                         | i           |          |  |  |
|              | <br>                    | i<br>1      |          |  |  |
|              | ]<br>                   | -           |          |  |  |
|              |                         | -           |          |  |  |
|              |                         |             |          |  |  |
|              |                         | -<br>-<br>- |          |  |  |
|              |                         |             |          |  |  |
|              |                         | <u>i</u>    | <u>i</u> |  |  |





Time

|                         | <b>Fraction Of</b> | Fraction Car | ds 2     | 1, 2<br>4 3 |
|-------------------------|--------------------|--------------|----------|-------------|
|                         | <u>0</u>           | <u>3</u>     | <u>4</u> | <u>0</u>    |
|                         | 4                  | 4            | 4        | 5           |
|                         | <u>2</u>           | <u>3</u>     | <u>4</u> | <u>5</u>    |
|                         | 5                  | 5            | 5        | 5           |
| p/McGraw-Hill           | <u>1</u>           | <u>2</u>     | <u>3</u> | <u>4</u>    |
|                         | 10                 | 10           | 10       | 10          |
| Copyright © Wright Grou | <u>6</u>           | <u>7</u>     | <u>8</u> | <u>9</u>    |
|                         | 10                 | 10           | 10       | 10          |

### Fraction Of Gameboard and Record Sheet



| Round  | "Fraction-of" Problem | Points |
|--------|-----------------------|--------|
| Sample | $\frac{1}{5}$ of 25   | 5      |
| 1      |                       |        |
| 2      |                       |        |
| 3      |                       |        |
| 4      |                       |        |
| 5      |                       |        |
| 6      |                       |        |
| 7      |                       |        |
| 8      |                       |        |
|        | Total Score           |        |

| Fre | <i>Fraction/Percent Concentration</i> Tiles (Front) (1, 2) |                |                |               |  |  |  |  |
|-----|--|----------------|----------------|---------------|--|--|--|--|
|     | 10%  | 20%            | 25%            | 30%           |  |  |  |  |
|     | 40%  | 50%            | 60%            | 70%           |  |  |  |  |
|     | 75%  | 80%            | 90%            | 100%          |  |  |  |  |
|     | <u>1</u><br>2  | <u>1</u><br>4  | <u>3</u><br>4  | <u>1</u><br>5 |  |  |  |  |
|     | <u>2</u><br>5  | <u>3</u><br>5  | <u>4</u><br>5  | 1<br>10       |  |  |  |  |
|     | <u>3</u><br>10   | <u>7</u><br>10 | <u>9</u><br>10 | <u>2</u><br>2 |  |  |  |  |

| <i>Fraction/Percent Concentration</i> Tiles (Back |
|---|
|---|

| %        | %        | %        | %        |
|----------|----------|----------|----------|
| %        | %        | %        | %        |
| %        | %        | %        | %        |
| <u>a</u> | <u>a</u> | <u>a</u> | <u>a</u> |
| b        | b        | b        | b        |
| <u>a</u> | <u>a</u> | <u>a</u> | <u>a</u> |
| b        | b        | b        | b        |
| <u>a</u> | <u>a</u> | <u>a</u> | <u>a</u> |
| b        | b        | b        | b        |

2

1 П

Time

| Fraction Of Set Cards |             |             |             |  |  |  |
|-----------------------|-------------|-------------|-------------|--|--|--|
|                       |             |             |             |  |  |  |
| 3 counters            | 4 counters  | 5 counters  | 6 counters  |  |  |  |
| 20 counters           | 21 counters | 12 counters | 28 counters |  |  |  |
| 15 counters           | 30 counters | 20 counters | 40 counters |  |  |  |
|                       |             |             |             |  |  |  |
| 8 counters            | 10 counters | 12 counters | 15 counters |  |  |  |
| 27 counters           | 32 counters | 30 counters | 36 counters |  |  |  |
|                       |             |             |             |  |  |  |
| 18 counters           | 20 counters | 21 counters | 25 counters |  |  |  |
| 36 counters           | 4 counters  | 30 counters | 6 counters  |  |  |  |
| 10 counters           | 3 counters  | 24 counters | 40 counters |  |  |  |
|                       |             |             |             |  |  |  |
| 28 counters           | 30 counters | 36 counters | 40 counters |  |  |  |
| 35 counters           | 32 counters | 20 counters | 18 counters |  |  |  |
| 30 counters           | 15 Counters | 24 counters | 25 Counters |  |  |  |





Name



Date

Time

2

1

# Fraction Spin



Time







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#### Date

### 2-4-5-10 Frac-Tac-Toe (Decimal Bingo Version)

If you use a standard deck of playing cards:

- ◆ Use Queens as zeros (0).
- ♦ Use Aces as ones (1).
- Discard Jacks, Kings, and Jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Fill in the gameboard by entering these numbers in the empty spaces:

| 0   | 0   | 0.1 | 0.2  | 0.25 | 0.3 | 0.4 | 0.5 |
|-----|-----|-----|------|------|-----|-----|-----|
| 0.5 | 0.6 | 0.7 | 0.75 | 0.8  | 0.9 | 1   | 1   |

| > 1.0 | > 2.0 | > 1.0 |
|-------|-------|-------|
|       |       |       |
| > 1.5 | > 1.5 | > 1.5 |
|       |       |       |
| > 1.0 | > 2.0 | > 1.0 |

Numerator Pile All remaining

cards

Denominator Pile Two each of 2, 4, 5, and 10 cards

### 2-4-5-10 Frac-Tac-Toe (Decimal Version)

If you use a standard deck of playing cards,

- use queens as zeros (0);
- use aces as ones (1);
- discard jacks, kings, and jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Use different color counters or coins as markers. If you use coins, one player is "heads" and the other player is "tails."

If you use a pencil to initial the squares, print lightly so you can erase and use the board again.

| >1.0 | 0 or 1 | >2.0 | 0 or 1 | >1.0 |
|------|--------|------|--------|------|
| 0.1  | 0.2    | 0.25 | 0.3    | 0.4  |
| >1.5 | 0.5    | >1.5 | 0.5    | >1.5 |
| 0.6  | 0.7    | 0.75 | 0.8    | 0.9  |
| >1.0 | 0 or 1 | >2.0 | 0 or 1 | >1.0 |





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Date

### 2-4-5-10 Frac-Tac-Toe (Percent Bingo Version) (

If you use a standard deck of playing cards:

- ◆ Use Queens as zeros (0).
- ♦ Use Aces as ones (1).
- Discard Jacks, Kings, and Jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Fill in the gameboard by entering these numbers in the empty spaces:

| 0%  | 0%  | 10% | 20% | 25% | 30% | 40%  | 50%  |
|-----|-----|-----|-----|-----|-----|------|------|
| 50% | 60% | 70% | 75% | 80% | 90% | 100% | 100% |

| >100% | >200% | >100% |
|-------|-------|-------|
|       |       |       |
| >100% | >200% | >100% |
|       |       |       |
| >100% | >300% | >100% |

Numerator Pile

All remaining cards

Denominator Pile Two each of 2, 4, 5, and 10 cards

### 2-4-5-10 Frac-Tac-Toe (Percent Version)

Date

If you use a standard deck of playing cards,

- use queens as zeros (0);
- use aces as ones (1);
- discard jacks, kings, and jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Use different color counters or coins as markers. If you use coins, one player is "heads" and the other player is "tails."

If you use a pencil to initial the squares, print lightly so you can erase and use the board again.

| >100% | 0%<br>or<br>100% | >200% | 0%<br>or<br>100% | >100% |
|-------|------------------|-------|------------------|-------|
| 10%   | 20%              | 25%   | 30%              | 40%   |
| >100% | 50%              | >200% | 50%              | >100% |
| 60%   | 70%              | 75%   | 80%              | 90%   |
| >100% | 0%<br>or<br>100% | >200% | 0%<br>or<br>100% | >100% |



| Pile                                    |
|---|
| Two each<br>of 2, 4, 5,<br>and 10 cards |



### 2-4-8 Frac-Tac-Toe (Decimal Bingo Version)

If you use a standard deck of playing cards:

- ◆ Use Queens as zeros (0).
- ◆ Use Aces as ones (1).
- Discard Jacks, Kings, and Jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Fill in the gameboard by entering these numbers in the empty spaces:

| 0    | 0     | 0.125 | 0.25 | 0.375 | 0.5 | 0.5 | 0.625 |
|------|-------|-------|------|-------|-----|-----|-------|
| 0.75 | 0.875 | 1     | 1    | 1.5   | 1.5 | 2   | 2     |

| > 2.0 | > 1.5              | > 2.0 |
|-------|--------------------|-------|
|       |                    |       |
| > 1.0 | 0.25<br>or<br>0.75 | > 1.0 |
|       |                    |       |
| > 2.0 | 1.125              | > 2.0 |

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All remaining cards

Numerator

Pile

Denominator Pile Two each of 2, 4, and 8 cards

### 2-4-8 Frac-Tac-Toe (Decimal Version)

Date

If you use a standard deck of playing cards,

- use queens as zeros (0);
- use aces as ones (1);
- discard jacks, kings, and jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Use different color counters or coins as markers. If you use coins, one player is "heads" and the other player is "tails."

If you use a pencil to initial the squares, print lightly so you can erase and use the board again.

| >2.0 | 0 or 1 | >1.5               | 0 or 1 | >2.0 |
|------|--------|--------------------|--------|------|
| 1.5  | 0.125  | 0.25               | 0.375  | 1.5  |
| >1.0 | 0.5    | 0.25<br>or<br>0.75 | 0.5    | >1.0 |
| 2.0  | 0.625  | 0.75               | 0.875  | 2.0  |
| >2.0 | 0 or 1 | 1.125              | 0 or 1 | >2.0 |



Denominator Pile Two each of 2, 4, and 8 cards

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Time



### 2-4-8 Frac-Tac-Toe (Percent Bingo Version)

If you use a standard deck of playing cards:

- ◆ Use Queens as zeros (0).
- ♦ Use Aces as ones (1).
- Discard Jacks, Kings, and Jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Fill in the gameboard by entering these numbers in the empty spaces:

| 0%  | 0%            | 12 <u>1</u> % | 25%  | 37 <u>1</u> % | 50%  | 50%  | 62 <u>1</u> % |
|-----|---------------|---------------|------|---------------|------|------|---------------|
| 75% | 87 <u>1</u> % | 100%          | 100% | 150%          | 150% | 200% | 200%          |

| >200% | >150%                             | >200% |
|-------|-----------------------------------|-------|
|       |                                   |       |
| >100% | 25%<br>or<br>75%                  | >100% |
|       |                                   |       |
| >200% | 112 <sup>1</sup> / <sub>2</sub> % | >200% |

Numerator Pile

All remaining cards

Denominator Pile Two each of 2, 4, and 8 cards

### 2-4-8 Frac-Tac-Toe (Percent Version)

Date

If you use a standard deck of playing cards:

- ◆ Use Queens as zeros (0).
- Use Aces as ones (1).
- Discard Jacks, Kings, and Jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Use different color counters or coins as markers. If you use coins, one player is HEADS and the other player is TAILS.

If you use a pencil to initial the squares, print lightly so you can erase and use the board again.

| >200% | 0%<br>or<br>100% | >150%               | 0%<br>or<br>100% | >200% |
|-------|------------------|---------------------|------------------|-------|
| 150%  | 12 <u>1</u> %    | 25%                 | 37 <u>1</u> %    | 150%  |
| >100% | 50%              | 25%<br>or<br>75%    | 50%              | >100% |
| 200%  | 62 <u>1</u> %    | 75%                 | 87 <u>1</u> %    | 200%  |
| >200% | 0%<br>or<br>100% | 112 <sup>1</sup> 2% | 0%<br>or<br>100% | >200% |

Numerator Pile All remaining cards

Denominator Pile Two each of 2, 4, and 8 cards



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#### Date

### **3-6-9 Frac-Tac-Toe** (Decimal Bingo Version)

If you use a standard deck of playing cards:

- ◆ Use Queens as zeros (0).
- ♦ Use Aces as ones (1).
- Discard Jacks, Kings, and Jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Fill in the gameboard by entering these numbers in the empty spaces:

| 0   | 0    | 0.16 | 0.3 | 0.3 | 0.6 |
|-----|------|------|-----|-----|-----|
| 0.6 | 0.83 | 1    | 1   | 1.3 | 1.6 |

| > 1.0 |     | 0.1   |     | > 1.0 |
|-------|-----|-------|-----|-------|
|       | 0.2 |       |     | 0.4   |
| > 2.0 | 0.5 | > 1.0 |     | > 2.0 |
|       | 0.7 |       | 0.8 |       |
| > 1.0 |     |       |     | > 1.0 |

Numerator Pile

All remaining cards

Denominator Pile Two each of 3, 6, and 9 cards

### 3-6-9 Frac-Tac-Toe (Decimal Version)

Date

If you use a standard deck of playing cards,

- use queens as zeros (0);
- use aces as ones (1);
- discard jacks, kings, and jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Use different color counters or coins as markers. If you use coins, one player is "heads" and the other player is "tails."

If you use a pencil to initial the squares, print lightly so you can erase and use the board again.

| >1.0 | 0 or 1 | 0.1  | 0 or 1 | >1.0 |
|------|--------|------|--------|------|
| 0.16 | 0.2    | 0.3  | 0.3    | 0.4  |
| >2.0 | 0.5    | >1.0 | 0.6    | >2.0 |
| 0.6  | 0.7    | 0.83 | 0.8    | 1.3  |
| >1.0 | 0 or 1 | 1.6  | 0 or 1 | >1.0 |





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Time

### 3-6-9 Frac-Tac-Toe (Percent Bingo Version)

If you use a standard deck of playing cards:

- ◆ Use Queens as zeros (0).
- ♦ Use Aces as ones (1).
- Discard Jacks, Kings, and Jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Fill in the gameboard by entering these numbers in the empty spaces:

| 0%            | 0%            | 100% | 16 <u>2</u> %  | 33 <u>1</u> %  | 33 <u>1</u> %  |
|---------------|---------------|------|----------------|----------------|----------------|
| 66 <u>2</u> % | 83 <u>1</u> % | 100% | 133 <u>1</u> % | 166 <u>2</u> % | 166 <u>2</u> % |

| >100% |       | 11.1% |       | >100% |
|-------|-------|-------|-------|-------|
|       | 22.2% |       |       | 44.4% |
| >200% | 55.5% | >100% |       | >200% |
|       | 77.7% |       | 88.8% |       |
| >100% |       |       |       | >100% |

Numerator Pile

All remaining cards

Denominator Pile Two each of 3, 6, and 9 cards

# **3-6-9 Frac-Tac-Toe** (Percent Version)

Date

If you use a standard deck of playing cards:

- ◆ Use Queens as zeros (0).
- ◆ Use Aces as ones (1).
- Discard Jacks, Kings, and Jokers.

If you use an Everything Math Deck, discard cards greater than 10.

Use different color counters or coins as markers. If you use coins, one player is HEADS and the other player is TAILS.

If you use a pencil to initial the squares, print lightly so you can erase and use the board again.

| >100%         | 0%<br>or<br>100% | 11.1%                             | 0%<br>or<br>100% | >100%          |
|---------------|------------------|-----------------------------------|------------------|----------------|
| 16 <u>2</u> % | 22.2%            | 33 <u>1</u> %                     | 33.3%            | 44.4%          |
| >200%         | 55.5%            | >100%                             | 66.6%            | >200%          |
| 66 <u>2</u> % | 77.7%            | 83 <u>1</u> %                     | 88.8%            | 133 <u>1</u> % |
| >100%         | 0%<br>or<br>100% | 166 <sup>2</sup> / <sub>3</sub> % | 0%<br>or<br>100% | >100%          |

Pile All remaining cards Denominator Pile

Two each of 3, 6, and 9 cards

Numerator

Time

### Hidden Treasure Gameboards 1

Each player uses Grids 1 and 2.





**Grid 2:** Guess other player's point here.



Use this set of grids to play another game.

Grid 1: Hide your point here.





Grid 2: Guess other player's point here.



### Hidden Treasure Gameboards 2

Date

Each player uses Grids 1 and 2.

### Grid 1: Hide your point here.

Use this set of grids to play another game.

Grid 1: Hide your point here.

5 4 3 2 2 3 5 -5 -4 -3 -2 -1 0 4 -1 -2 -3 -4 -5

Grid 1



5

4

3

Time





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Grid 2: Guess other player's point here.





Time

# High-Number Toss Record Sheet

| Hundred<br>Millions | Ten<br>Millions | Millions | , | Hundred<br>Thousands | Ten<br>Thousands | Thousands | , | Hundreds | Tens | Ones |
|---------------------|-----------------|----------|---|----------------------|------------------|-----------|---|----------|------|------|
|                     |                 |          |   |                      |                  |           |   |          |      |      |

| Round  | Player 1                      | >, <, = | Player 2                    |
|--------|-------------------------------|---------|-----------------------------|
| Sample | <u>/ 3 2 6</u><br>/32,000,000 | >       | <u>3 5 6 4</u><br>3,560,000 |
| /      | I<br>                         |         | I<br>                       |
| 2      | I                             |         | I                           |
| 3      | I                             |         | I                           |
| 4      | I                             |         | I                           |
| 5      | I                             |         | I                           |







Time

| Mixed-Number    | Spin Reco | rd Sheet |                |
|-----------------|-----------|----------|----------------|
|                 |           |          |                |
| Name            |           | Name     |                |
| + < 3           |           | +        | < 3            |
| + > 3           |           | +        | > 3            |
| < 1             |           |          | < 1            |
| < \frac{1}{2}   |           | =        | $<\frac{1}{2}$ |
| + > 1           |           | +        | > 1            |
| +<1             |           | +        | < 1            |
| +<2             |           | +        | < 2            |
| = 3             |           |          | = 3            |
| > 1             |           | =        | > 1            |
| +> > <u>1</u> 2 |           | +        | $>\frac{1}{2}$ |
| +<3             |           | +        | < 3            |
| +>2             |           | +        | >2             |

### Name That Number Record Sheet



### Round 1

| Target number:             | My cards:       |            |      |              |
|----------------------------|-----------------|------------|------|--------------|
| My best solution (number r | nodel):         |            |      |              |
| Number of cards used:      |                 |            |      | 0            |
| Round 2                    | My cards:       |            |      | opyright © W |
| My best solution (number r | nodel):         |            |      | /right Group |
| Number of cards used:      |                 |            |      | o/McGraw     |
|                            |                 |            |      | Hill         |
|                            |                 |            |      |              |
| Name                       |                 | Date       | Time |              |
| Name That Nu               | <i>umber</i> Re | cord Sheet |      | 3            |
| Round 1                    |                 |            |      |              |
| Target number:             | My cards:       |            |      | Copyriu      |
| My best solution (number r | nodel):         |            |      | ght © W      |
| Number of cards used:      |                 |            |      | rright Gro   |
| Round 2                    |                 |            |      | up/McGi      |
| Target number:             | My cards:       |            |      | raw-Hill     |
| My best solution (number r | nodel):         |            |      |              |
| Number of cards used:      |                 |            |      |              |



Time



Time



### **Top-It Record Sheet**



Play a round of *Top-It.* Record your number sentence and your opponent's number sentence. Write >, <, or = to compare the number sentences.

| Round  | Player 1   | >, <, = | Player 2    |
|--------|------------|---------|-------------|
| Sample | 4 + 6 = 10 | <       | 8 + 3 = 1 / |
| 1      |            |         |             |
| 2      |            |         |             |
| 3      |            |         |             |
| 4      |            |         |             |
| 5      |            |         |             |



### **Top-It Record Sheet**

Play a round of *Top-It.* Record your number sentence and your opponent's number sentence. Write >, <, or = to compare the number sentences.

| Round  | Player 1   | >, <, = | Player 2    |
|--------|------------|---------|-------------|
| Sample | 4 + 6 = 10 | <       | 8 + 3 = / / |
| 1      |            |         |             |
| 2      |            |         |             |
| 3      |            |         |             |
| 4      |            |         |             |
| 5      |            |         |             |

### \_\_\_\_\_



Time

**Polygon Capture Pieces** 1 В Η С 0 Μ Ζ Α  $\Diamond$ 4 വ F L Ρ 3

Date

Time

# **Polygon Capture Property Cards**

| There is<br>only one<br>right<br>angle.     | There are<br>one or<br>more<br>right<br>angles. | All angles<br>are right<br>angles.                | There are<br>no right<br>angles.                 |
|---|---|---|--|
| There is<br>at least one<br>acute<br>angle. | At least<br>one angle<br>is more<br>than 90°.   | All angles<br>are right<br>angles.                | There are<br>no right<br>angles.                 |
| All opposite<br>sides are<br>parallel.      | Only one<br>pair of<br>sides is<br>parallel.    | There are<br>no parallel<br>sides.                | All sides<br>are the<br>same<br>length.          |
| All opposite<br>sides are<br>parallel.      | Some<br>sides have<br>the same<br>length.       | All opposite<br>sides have<br>the same<br>length. | Wild Card:<br>Pick your<br>own side<br>property. |



# **Polygon Capture Record Sheet**



| Round | Property | List Polygon Captured | Score |
|-------|----------|-----------------------|-------|
| 1     |          |                       |       |
| 2     |          |                       |       |
| 3     |          |                       |       |
| 4     |          |                       |       |
| 5     |          |                       |       |
|       |          | Total Score           |       |

| Name                          |                                      |
|-------------------------------|--------------------------------------|
| Rugs and Fe                   | ences Area a                         |
|                               | T<br>I<br>I<br>I<br>I                |
| A                             | A                                    |
| Find the area of the polygon. | Find the area of the polygon.        |
|                               | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| L<br>/<br>/<br>/<br>/         | <br> <br> <br> <br>!                 |
|                               |                                      |

| P            | P            | P            | P            |
|--------------|--------------|--------------|--------------|
| Find the     | Find the     | Find the     | Find the     |
| perimeter of | perimeter of | perimeter of | perimeter of |
| the polygon. | the polygon. | the polygon. | the polygon. |
| A or P       | A or P       | A or P       | A or P       |
| Opponent's   | Opponent's   | Opponent's   | Opponent's   |
| Choice       | Choice       | Choice       | Choice       |
| A or P       | A or P       | A or P       | A or P       |
| Player's     | Player's     | Player's     | Player's     |
| Choice       | Choice       | Choice       | Choice       |

nd Perimeter Deck

Date

А

Find the area

of the polygon.

Ο

А

Find the area

of the polygon.





Time



#### Name

### Date

Time

# **Rugs and Fences Record Sheet**



| Round  | Card<br>number | Circle A (area)<br>or P (perimeter) | Number model         | Score |
|--------|----------------|-------------------------------------|----------------------|-------|
| Sample | 3              | A or                                | /0 + /0 + 2 + 2 = 24 | 24    |
| 1      |                | A or P                              |                      |       |
| 2      |                | A or P                              |                      |       |
| 3      |                | A or P                              |                      |       |
| 4      |                | A or P                              |                      |       |
| 5      |                | A or P                              |                      |       |
| 6      |                | A or P                              |                      |       |
| 7      |                | A or P                              |                      |       |
| 8      |                | A or P                              |                      |       |
|        |                |                                     | Total Score          |       |

----

| Round  | Card<br>number | Circle A (area)<br>or P (perimeter) | Number model         | Score |
|--------|----------------|-------------------------------------|----------------------|-------|
| Sample | 3              | A or                                | /0 + /0 + 2 + 2 = 24 | 24    |
| 1      |                | A or P                              |                      |       |
| 2      |                | A or P                              |                      |       |
| 3      |                | A or P                              |                      |       |
| 4      |                | A or P                              |                      |       |
| 5      |                | A or P                              |                      |       |
| 6      |                | A or P                              |                      |       |
| 7      |                | A or P                              |                      |       |
| 8      |                | A or P                              |                      |       |
|        |                |                                     | Total Score          | ,     |

### Sides and Angles: Triangles

- 1. Cut out the cards. Place the 4 triangle cards in a row. Shuffle the remaining cards.
- 2. Partners take turns drawing cards and placing them in groups to build a triangle. If a card cannot be placed (a 4th angle or side in the column, for example), return it to the bottom of the deck. Continue until all cards have been drawn.

Date

- 3. The partner who places the final card to build a triangle takes all the cards in that pile.
- 4. When all cards have been drawn, use your protractor and straightedge to draw the triangles that match your cards.

| Equilateral<br>Triangle | lsosceles<br>Triangle | Scalene<br>Triangle  | Right<br>Triangle    | 2" Line<br>Segment   | 2" Line<br>Segment   |  |
|-------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|--|
| 90° Angle               | 20° Angle             | 35° Angle            | 125° Angle           | 3" Line<br>Segment   | 35° Angle            |  |
| 55° Angle               | 2'' Line<br>Segment   | 40° Angle            | 40° Angle            | 100° Angle           | 2" Line<br>Segment   |  |
| 2" Line<br>Segment      | 7 cm Line<br>Segment  | 4 cm Line<br>Segment | 7 cm Line<br>Segment | 4 cm Line<br>Segment | 4 cm Line<br>Segment |  |
| 5 cm Line<br>Segment    | 6 cm Line<br>Segment  | 3 cm Line<br>Segment | 60° Angle            | 60° Angle            | 60° Angle            |  |





Time

### Spoon Scramble Record Sheet

### **Player Name:**

Record your letters on the lines below.

### **Winning Combinations**

In each row, record the four cards that are of equal value from two of the rounds that you won.





Date

# Spoon Scramble Record Sheet

### Player Name:

Name

Record your letters on the lines below.

### Winning Combinations

In each row, record the four cards that are of equal value from two of the rounds that you won.

Time

### Triangle Sort

- 1. Cut out the 16 triangle cards below.
- **2.** Sort them into two different groups. Explain how you sorted them.
- **3.** Sort them into three groups. Explain how you sorted them.



| <b>3-D Shape Sort Property Cards</b>         |  |   |  |  |  |
|--|--|---|--|--|--|
| l have<br>no vertices.                       | I have at least<br>2 edges that<br>are parallel<br>to each other.  | I have an odd<br>number of edges.   |  |  |  |
| l have at least<br>1 curved edge.            | l have fewer<br>than 6 vertices.   | I have at least<br>2 edges that<br>are perpendicular<br>to each other.  |  |  |  |
| l have at least<br>1 face<br>(flat surface). | l have at least<br>1 curved surface.   | All of my faces<br>are triangles.   |  |  |  |
| At least 1<br>of my faces<br>is a circle.    | I have at least<br>1 pair of faces<br>that are parallel<br>to each other.  | <b>Wild Card:</b><br>Pick your own<br>surface property.   |  |  |  |
|  | I have<br>no vertices.<br>I have at least<br>1 curved edge.<br>I have at least<br>1 curved edge.<br>I have at least<br>1 face<br>(flat surface). | I have no vertices. I have at least 2 edges that are parallel to each other.   I have at least 1 curved edge. I have fewer than 6 vertices.   I have at least 1 face (flat surface). I have at least 1 curved surface.   At least 1 of my faces is a circle. I have at least 1 pair of faces that are parallel to each other. |  |  |  |

Time



Time



Name

### What's My Attribute Rule?

#### Directions

- 1. Label one sheet of paper *These fit the rule.*
- 2. Label another sheet of paper *These do NOT fit the rule.*
- Take turns. Roll the six-sided die once. The player with the lowest number is the first "Rule Maker."
- **4.** The Rule Maker shuffles and places the Attribute Rule Cards facedown.
- 5. The Rule Maker turns over the top Attribute Rule Card, but does not show it to the other players or tell them what the rule is. For example: *large shapes, but not triangles.*
- 6. The Rule Maker chooses 3 or 4 attribute blocks that fit the rule on the card. The Rule Maker puts them on the sheet labeled *These fit the rule.*



These fit the rule.  The Rule Maker chooses 3 or 4 blocks that do NOT fit the rule. The Rule Maker puts them on the sheet labeled *These do NOT fit the rule.*



# These do NOT fit the rule.

- The other players take turns choosing a block that they think might fit the rule and placing it on that sheet.
- 9. If the Rule Maker says "No," the player puts the block on the correct sheet. If "Yes," the player gets to suggest what the rule might be. The Rule Maker then tells the player whether his or her rule is correct.
- **10.** The round continues until someone figures out the rule. That person becomes the Rule Maker for the next round.

| What's My Attribute Rule? Cards 1,2   4 3     |                                |                                    |                                    |   |  |
|---|--------------------------------|------------------------------------|------------------------------------|---|--|
| small<br>blue shapes                          | large red<br>shapes            | large shapes,<br>but not triangles | circles, but<br>not red            | 7 |  |
| blue and yellow<br>shapes, but<br>not circles | red and yellow<br>small shapes | not triangles<br>or squares        | large triangles,<br>but not yellow |   |  |
| large circles,<br>but not red                 | large circles<br>or squares    |                                    |                                    |   |  |

### Where Do I Fit In?

- 1. Cut along the dotted line to separate the Activity Mat from the property cards.
- 2. Cut out the property cards.
- 3. Partners each roll a die: the higher roll stands for angles; the lower roll stands for sides.
- 4. Shuffle and deal all 12 property cards (6 cards to each player).
- **5.** If a partner rolls angles, that partner places all of his or her angle cards under the appropriate triangles. If a partner rolls sides, that partner places all of his or her side cards under the appropriate triangles.
- 6. Shuffle the cards again and repeat Steps 3 through 5.





Date



Time