

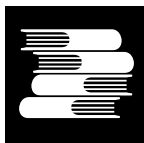
Grade Four

Classroom

Strategies

Blackline Masters

| | |
|---|---|
| 0 | 1 |
| 2 | 3 |
| 4 | 5 |
| 6 | 7 |
| 8 | 9 |



500

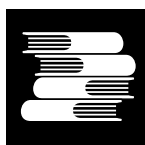
____/____/____

Pay to the order of: _____

____ Dollars

Intelligence Unlimited

For: _____



501

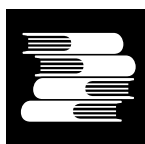
____/____/____

Pay to the order of: _____

____ Dollars

Intelligence Unlimited

For: _____



502

____/____/____

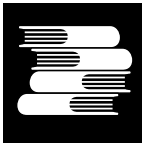
Pay to the order of: _____

____ Dollars

Intelligence Unlimited

For: _____

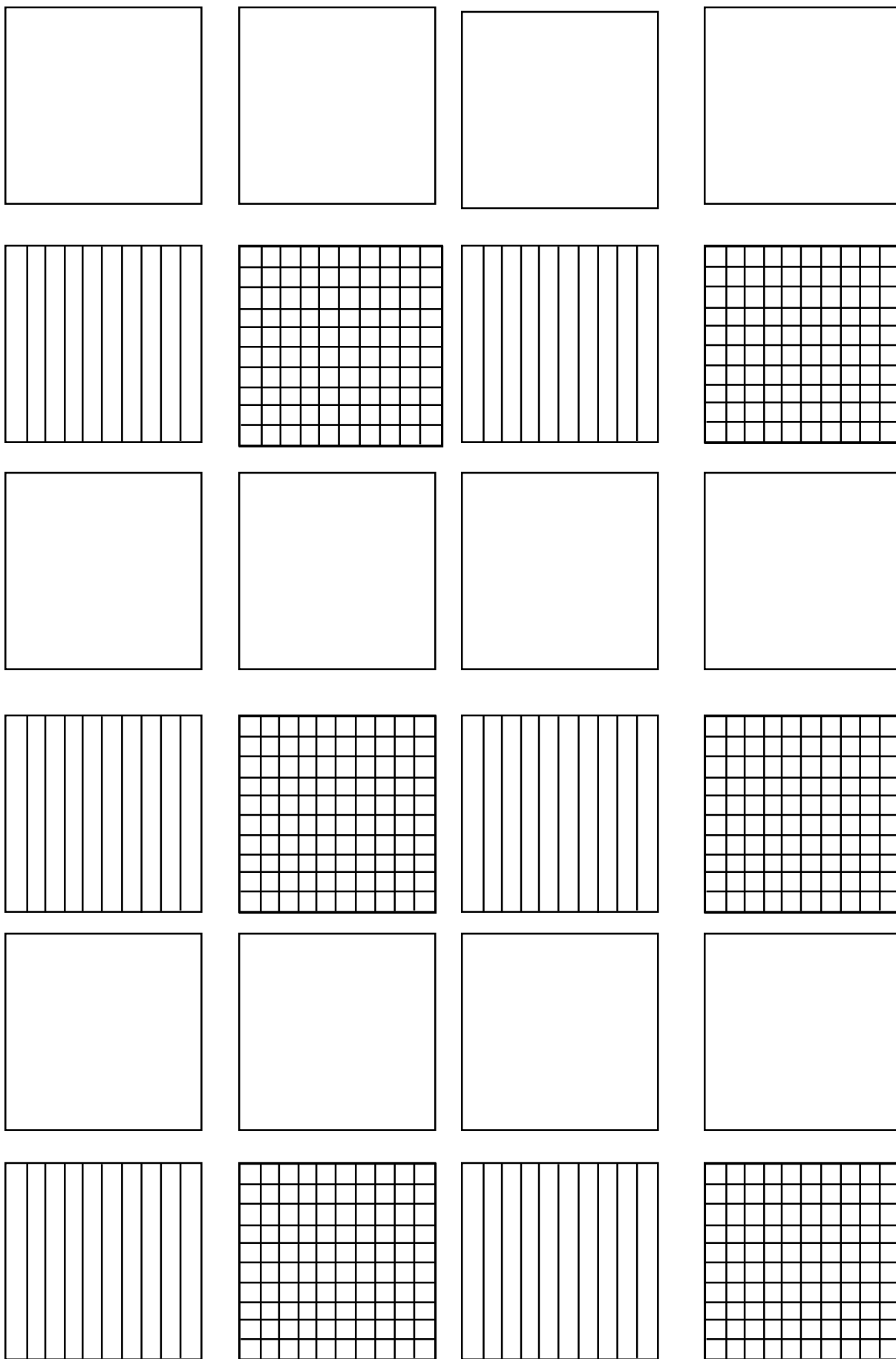
Check Register

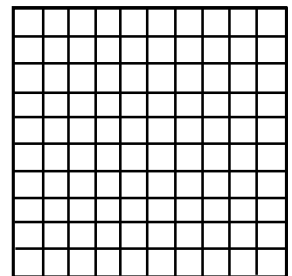
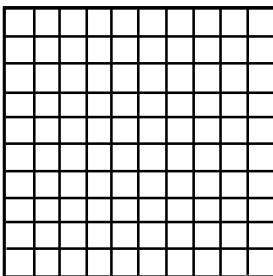
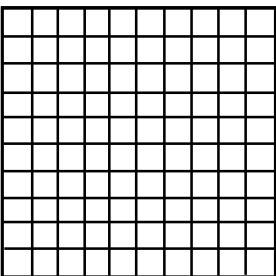
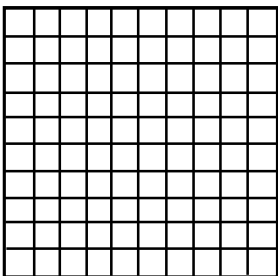
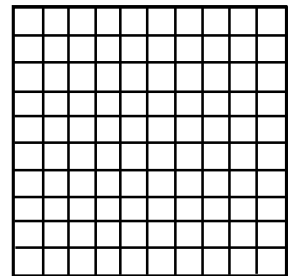
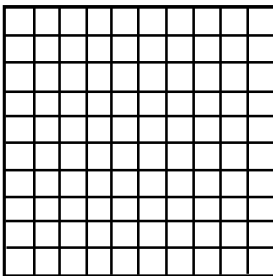
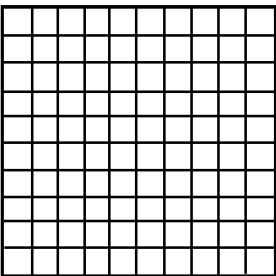
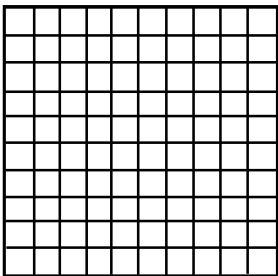
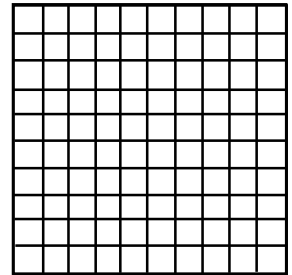
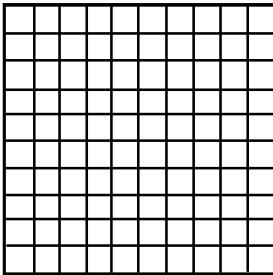
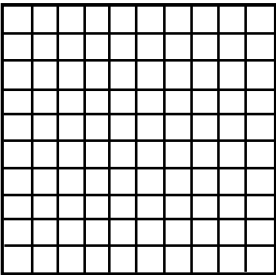
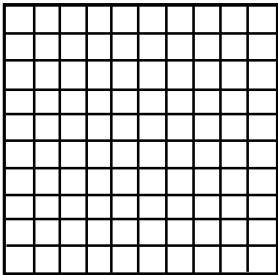
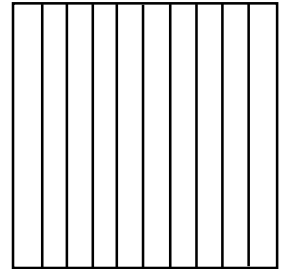
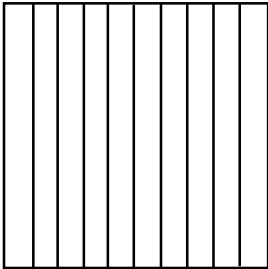
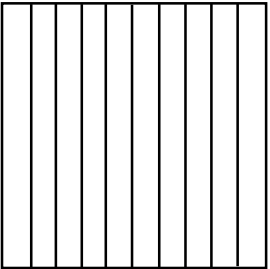
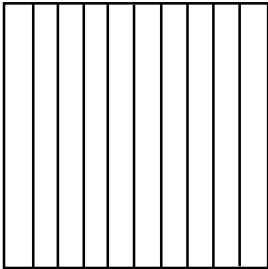
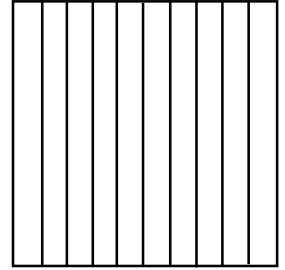
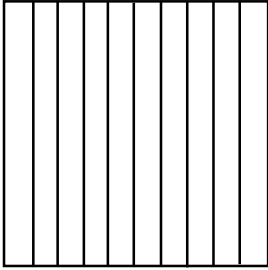
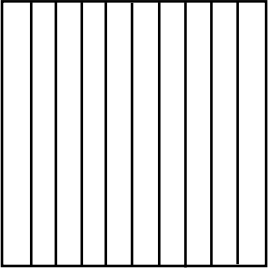
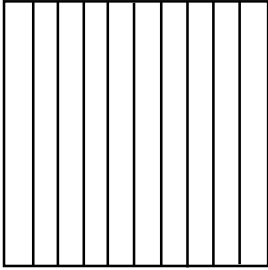
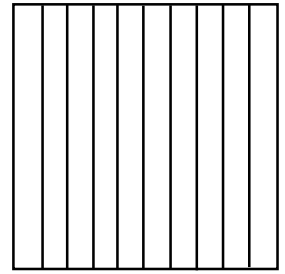
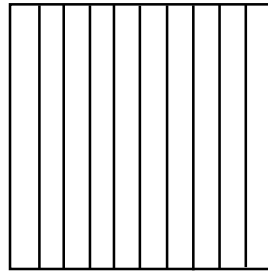
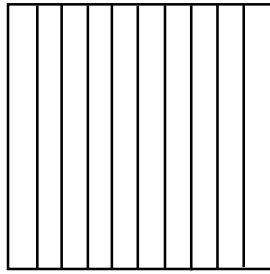
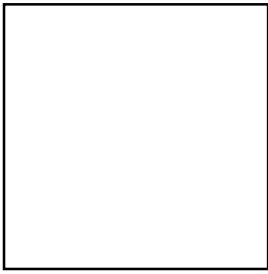


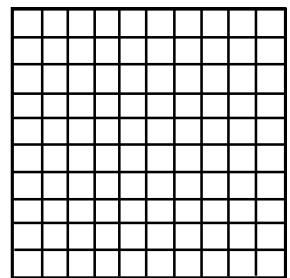
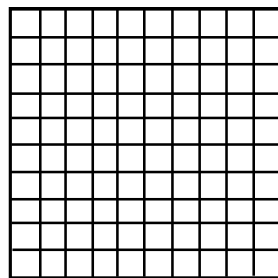
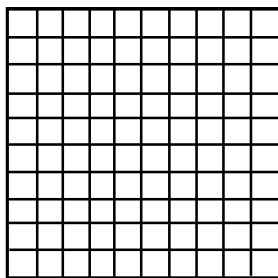
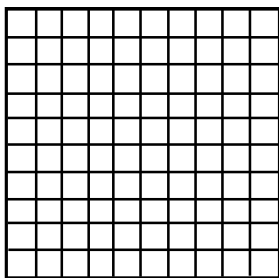
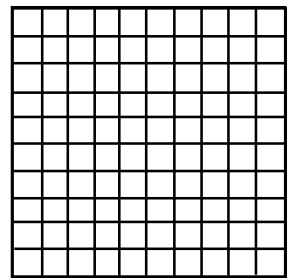
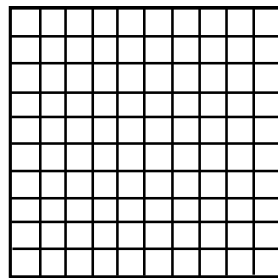
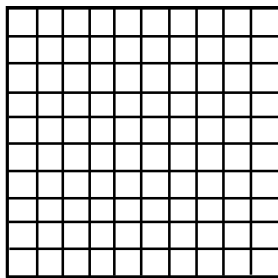
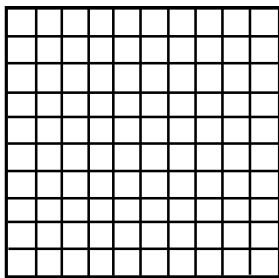
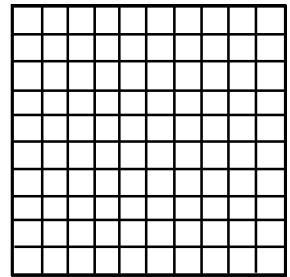
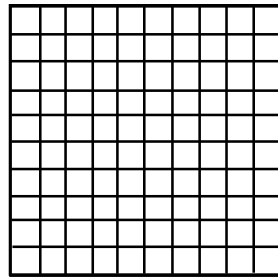
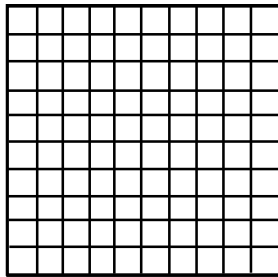
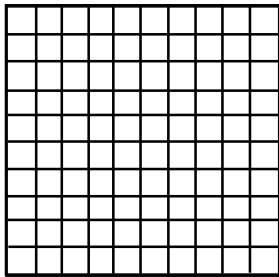
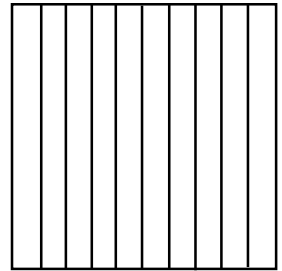
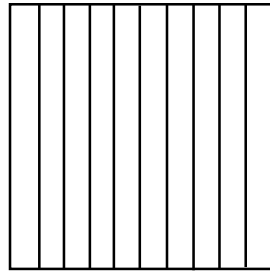
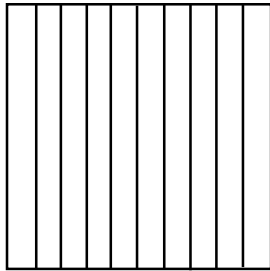
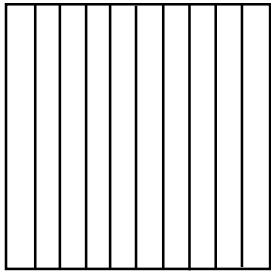
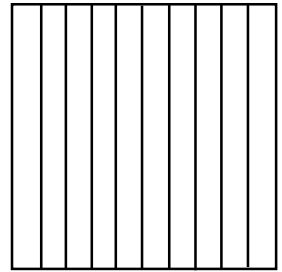
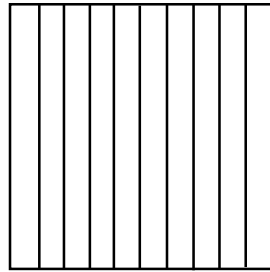
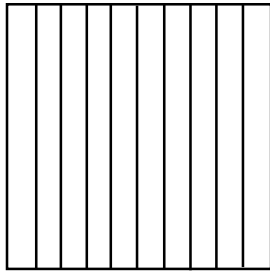
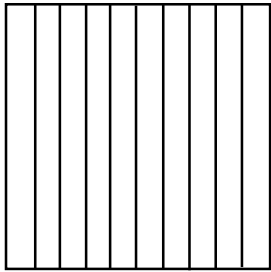
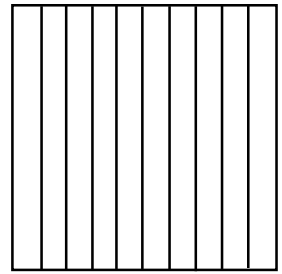
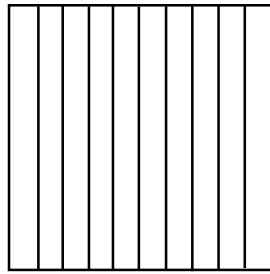
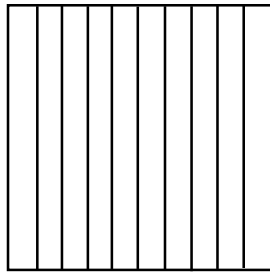
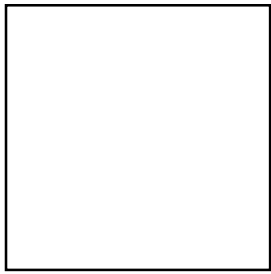
Intelligence Unlimited

Date Number Description of Transaction Payment Deposit Balance

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



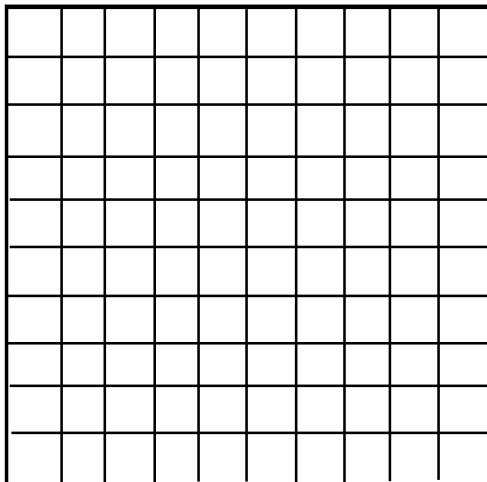
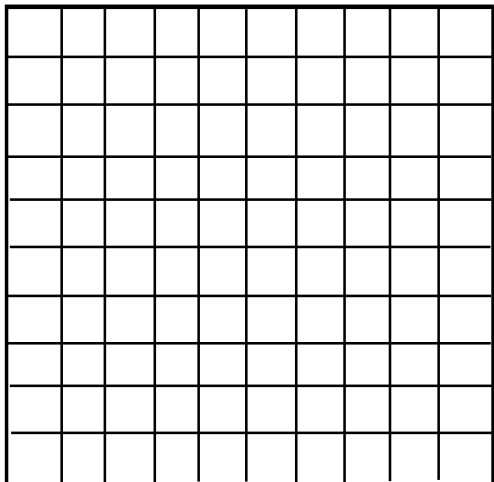
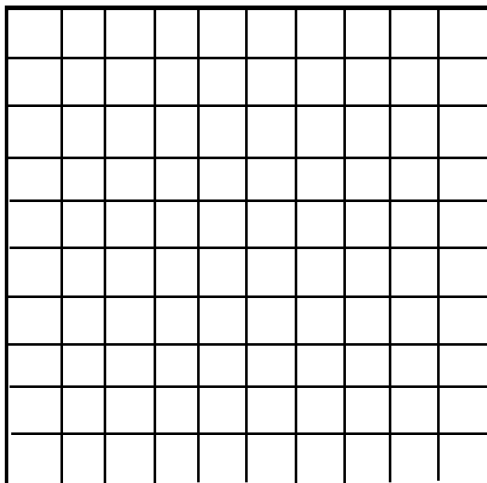
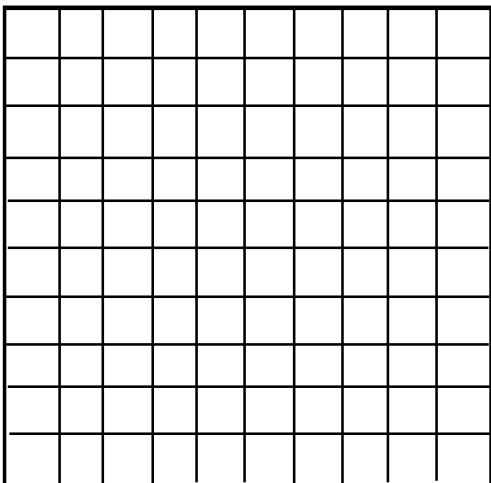
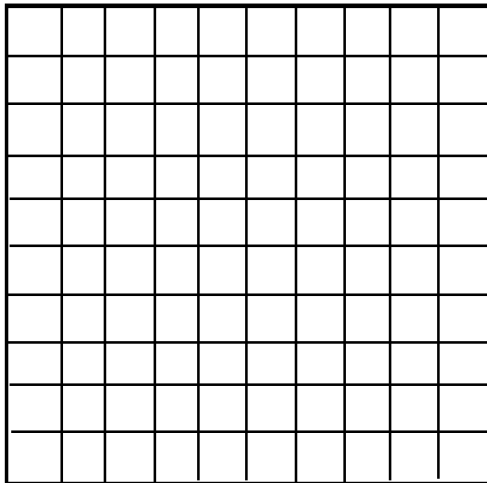
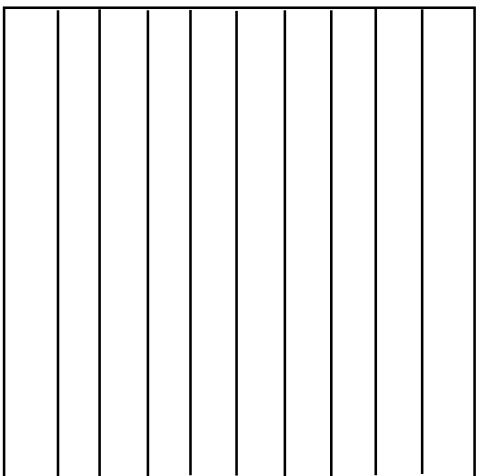




Dollar Derby

Challenge: What are the rules you need to play this game in reverse (start with one dollar and give it all away)?

Directions: Take turns rolling a number cube. Collect that many pennies. As soon as you can trade 10 pennies for a dime. The winner is the first to be able to trade 10 dimes for a dollar. At each turn players must write the value of money on their boards in decimal form.

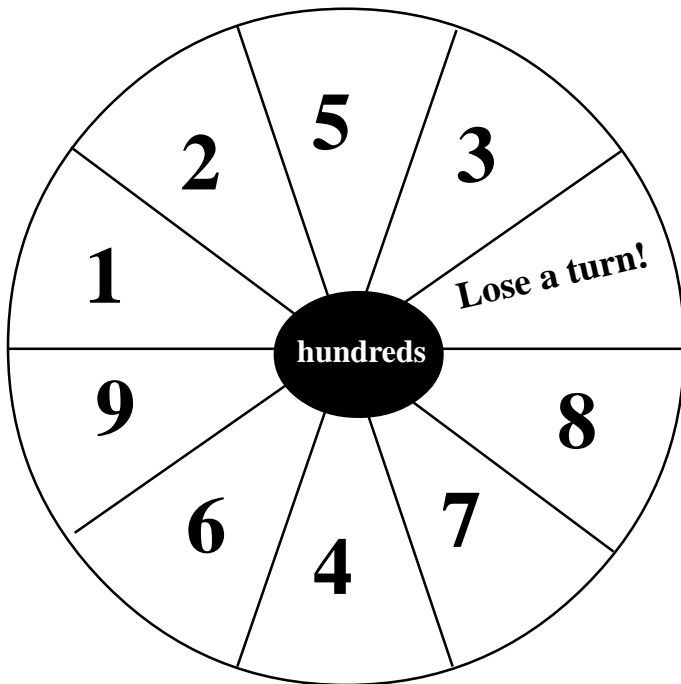
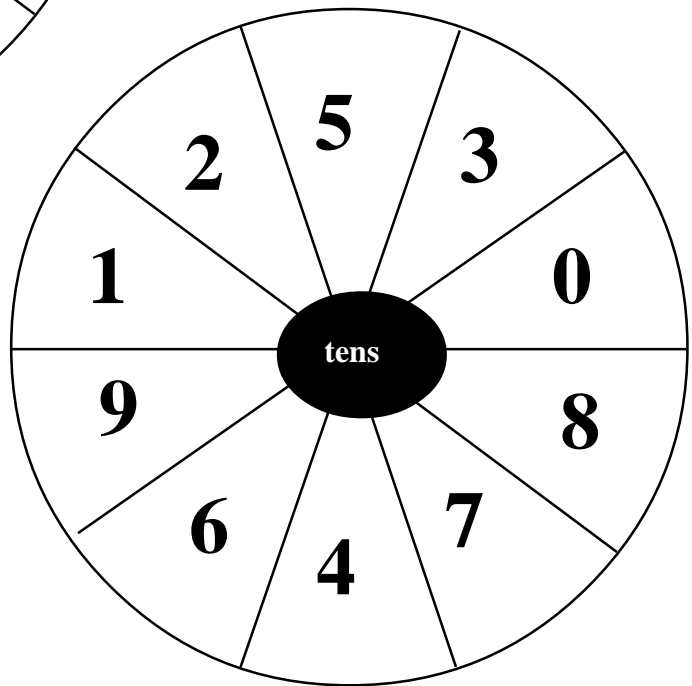
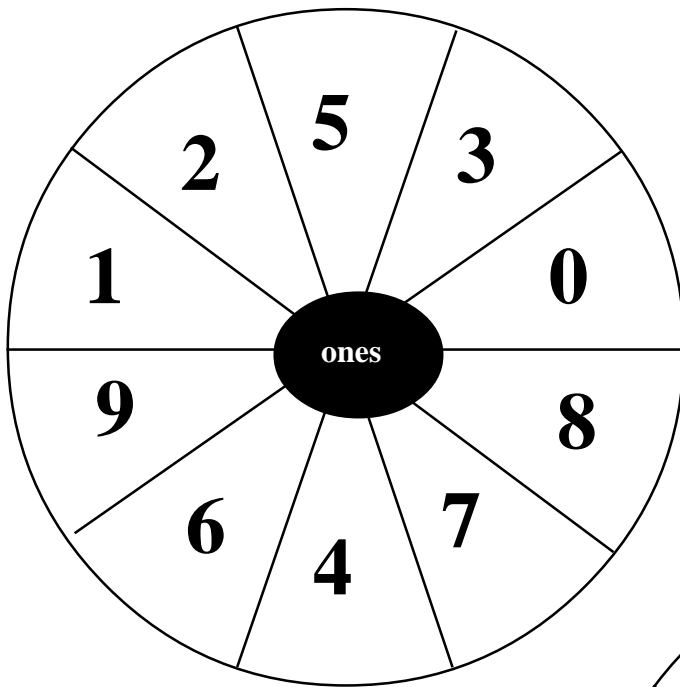


Line Up!

100



1000



| | |
|---|---|
| 1 | 2 |
| 4 | 3 |
| 5 | 6 |
| 7 | 8 |
| 9 | 0 |

| | |
|---------------|---------------|
| $\frac{1}{2}$ | $\frac{1}{4}$ |
| $\frac{1}{5}$ | $\frac{1}{3}$ |
| $\frac{1}{8}$ | $\frac{2}{3}$ |
| $\frac{3}{5}$ | $\frac{3}{4}$ |
| $\frac{5}{8}$ | $\frac{4}{5}$ |

| | | | | |
|------|------|------|------|------|
| 0.36 | 0.28 | 0.04 | 0.65 | 0.14 |
| 0.55 | 0.82 | 0.40 | 0.78 | 0.10 |

Concentration Cards

| | |
|--------------|--------------|
| 0.77 | 0.4 |
| 0.5 | 0.3 |
| 0.30 | 0.061 |
| 0.005 | 0.043 |
| 0.01 | 0.1 |

| | |
|---------------------------------|-------------------------------|
| sixty-seven hundredths | forty-eight hundredths |
| five hundredths | thirty-five hundredths |
| seventy-eight hundredths | sixty-one hundredths |
| five thousandths | forty-three hundredths |
| twenty-one hundredths | fifty-two hundredths |

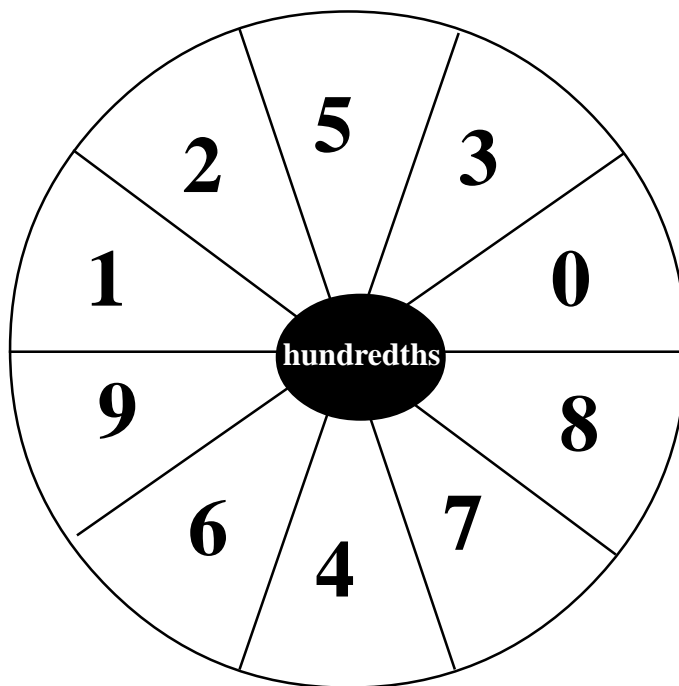
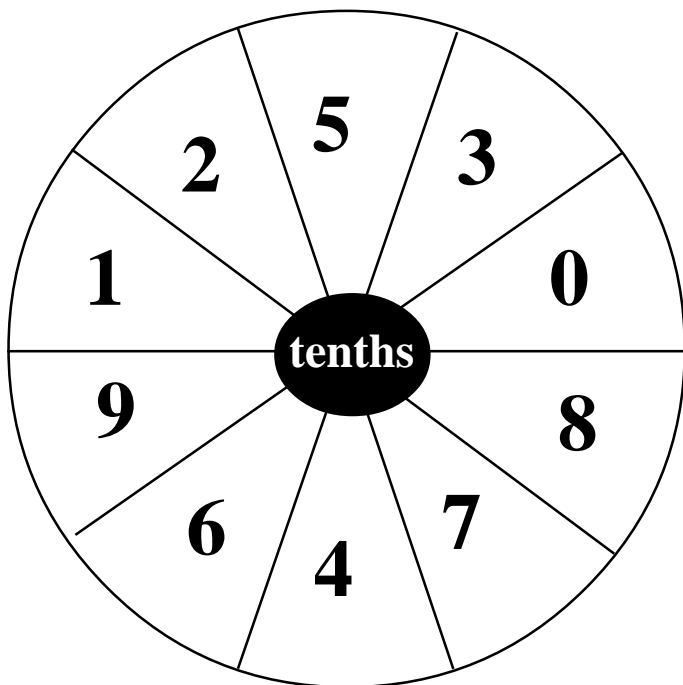
| | |
|--------------|-------------|
| 0.67 | 0.48 |
| 0.05 | 0.35 |
| 0.78 | 0.61 |
| 0.005 | 0.43 |
| 0.21 | 0.52 |

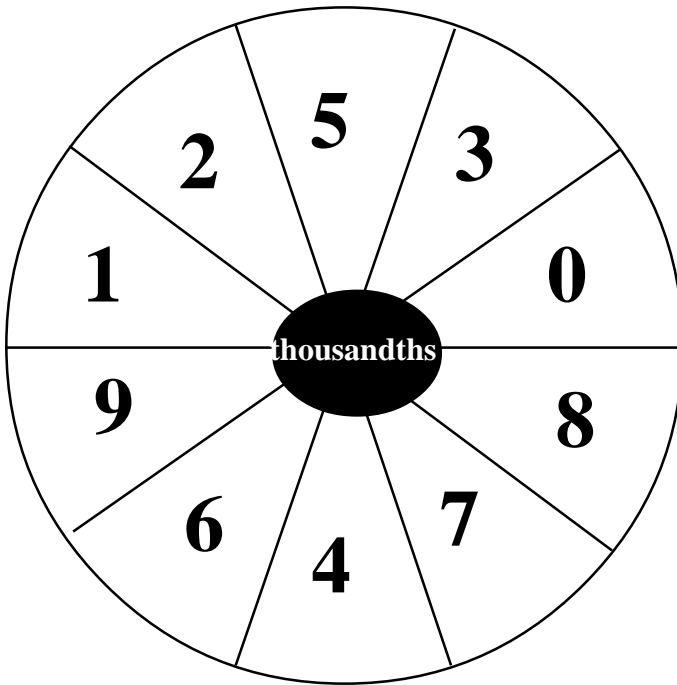
| | |
|---------------------------------|--------------------------------|
| seventy-seven hundredths | four tenths |
| five tenths | three tenths |
| thirty hundredths | sixty-one thousandths |
| five thousandths | forty-three thousandths |
| one hundredth | one tenth |

Bingo Cards

| | | | | |
|--|--|------------------|--|--|
| | | | | |
| | | | | |
| | | F R E E | | |
| | | | | |
| | | | | |

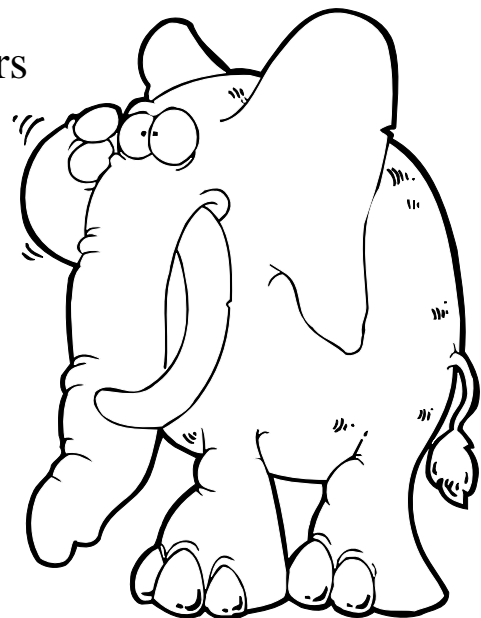
| | | | | |
|--|--|------------------|--|--|
| | | | | |
| | | | | |
| | | F R E E | | |
| | | | | |
| | | | | |





Directions for Decimal Bingo:

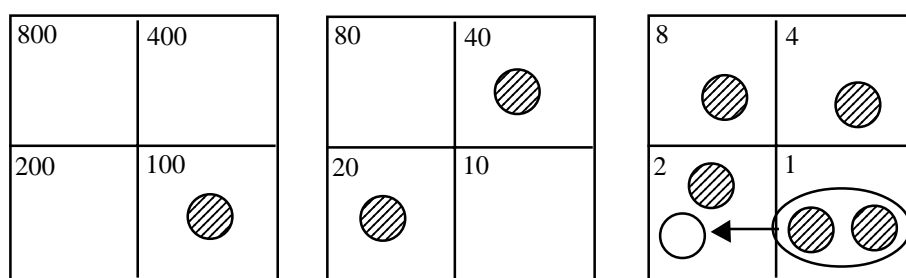
Duplicate cards and have students choose and write numbers from zero to 0.999 in their cards. Spin the spinners in succession to determine the numbers to “call”. A shorter game (with less choices) can be played with just two spinners and numbers from 0 to 0.99.



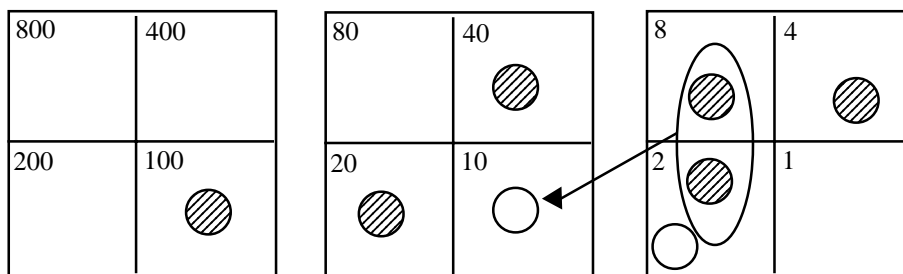
Give children opportunities to build numbers on the overhead so that all can see correct models and then allow them to work with a partner to practice building many numbers. Try modeling these numbers: 43,59, 137, 524, 691. You may wish to have students work with partners at their desks and take turns showing their models on the overhead.

Adding with Papy's Computer

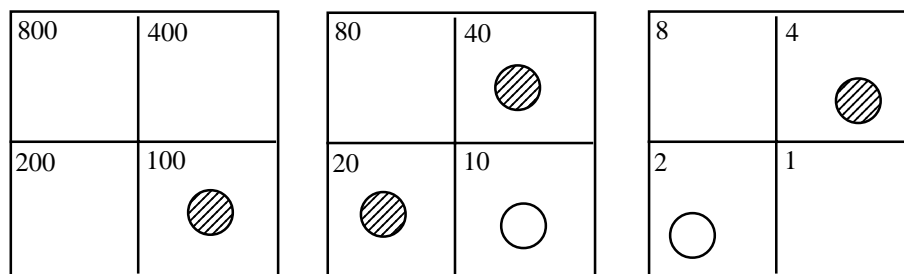
Addition of sums to 999 can be done on the boards. For example: If you are adding 129 to 47, you would first build 129 and then build 47 on the same boards. (You would put counters on the 100, 20, 8, 1 for the 129 and then the 40, 4, 2,1 for 47.) To do the addition, you must rearrange the counters on the boards so that each board has no more than one counter in each square. The two counters on the 1 are added together and exchanged for one on the 2.



Now there are two counters on the 2. One on the 2 should be added to the counter on the 8 and exchanged for one marker on the 10 rather than changing two 2's for one counter on the 4. This is to avoid having two counters in the same space. At this point there is only one marker on any square.



By adding the numbers on which there is a counter you have the answer to the addition problem.

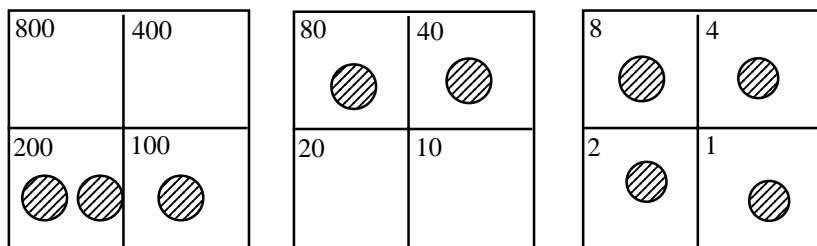


$$100 + 40 + 20 + 10 + 4 + 2 = 176$$

Try these examples: 56+ 29, 234 + 217, 603 + 28 (You may wish to try them yourself before working with the students.)

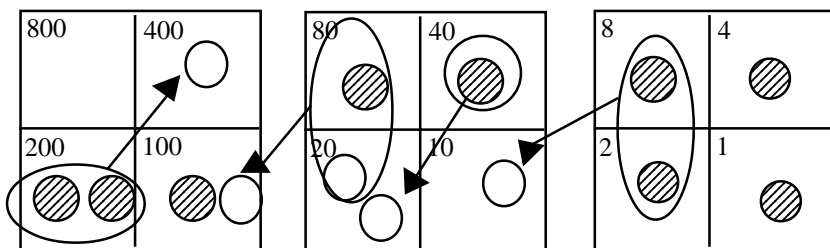
A more difficult problem involves several steps in trading:

a. Build both numbers.



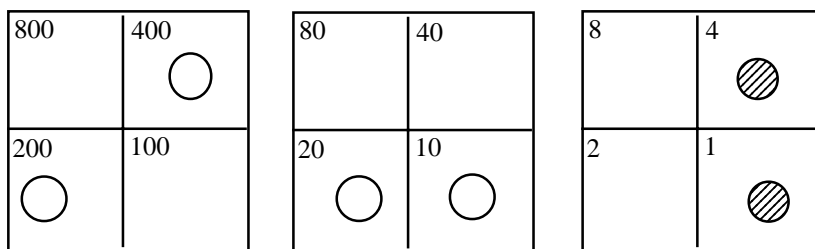
b. Combine 2 and 8 to make a 10.

c. Trade a 40 for two 20's and add $20 + 80$ to make 100.



d. Combine two 200's to make a 400.



e. Combine two 100's to make a 200.

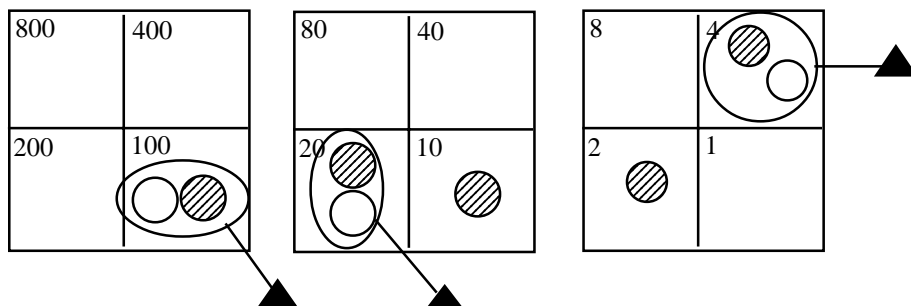


$$400 + 200 + 20 = 10 + 4 + 1 = 6356$$



Papy's Computer appeals to many students while others find it difficult to go beyond modeling of numbers and simple addition. Encourage children to work with partners to both assist and monitor each other.

The boards may be used for subtraction, but many third grade children will need a great deal of guidance. You may decide to use Papy's Computer for addition only.

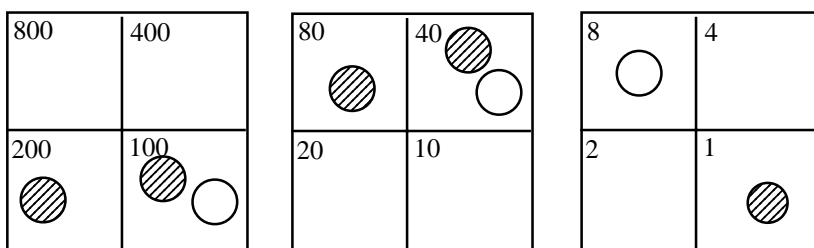
Here is one simple subtraction example. Two different colored counters are helpful. Use  counters to show 136 and  counters to model 124. Notice this is building a type of comparative model.



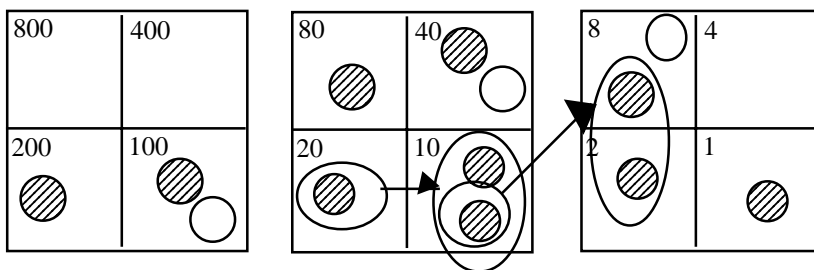
If there are equal counters of the two colors in a square, they cancel each other out and are removed from the board. The counters remaining on the board, when all of the white counters are removed, name the difference or the subtraction problem.

Below is a more complex model. It requires us to make a fair trade and exchange one counter of higher value for two others of an equal value. Use  to show 361 and  to show 148.

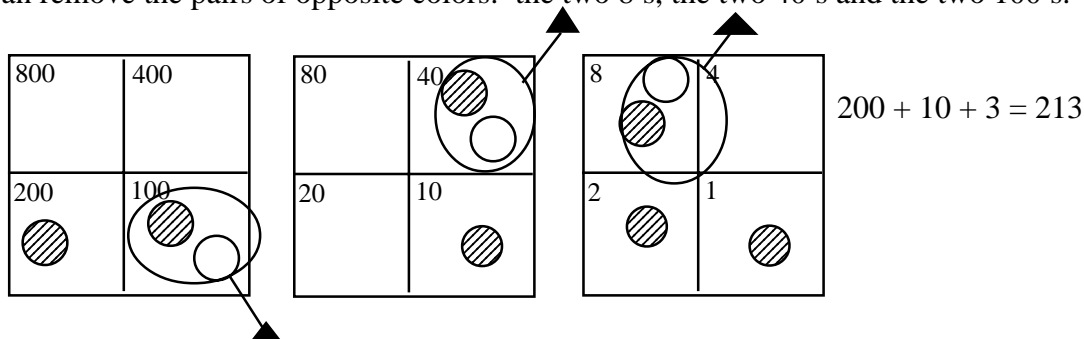
$$361 - 148 = 213$$



Because you need to remove both 148 in the lighter counters and 148 from the original set, you must trade to be able to remove the counter from the 8. Trade one 20 for two 10's. Then trade for an 8 and a 2.



Now you can remove the pairs of opposite colors: the two 8's, the two 40's and the two 100's.



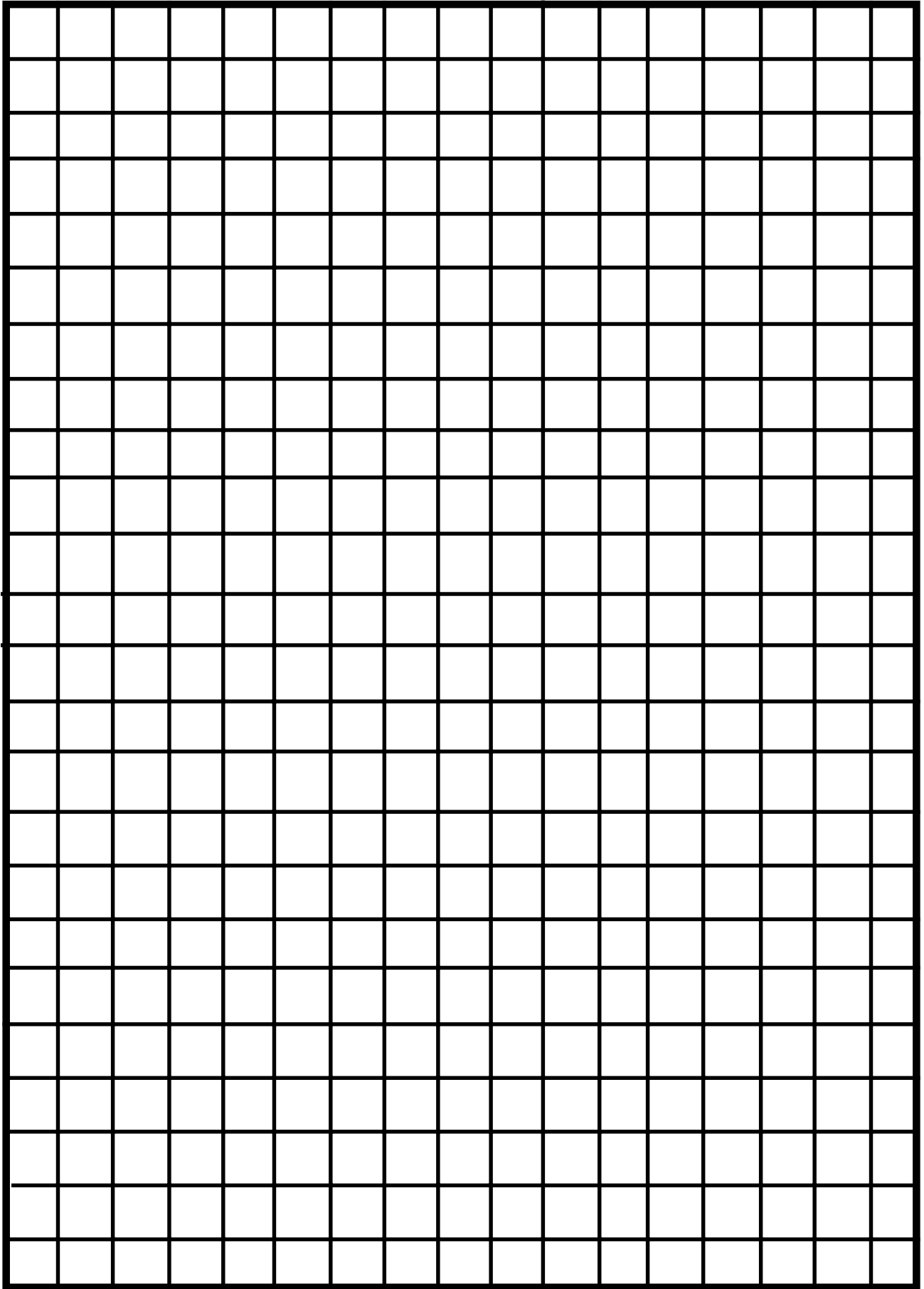
Papy's Computer

| | |
|-----|-----|
| 800 | 400 |
| 200 | 100 |

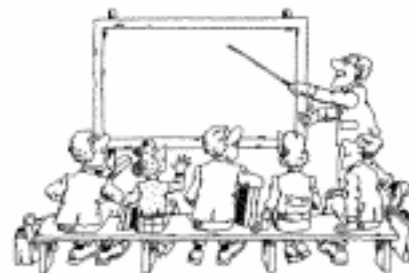
| | |
|----|----|
| 80 | 40 |
| 20 | 10 |

| | |
|---|---|
| 8 | 4 |
| 2 | 1 |

One-Centimeter Graph Paper



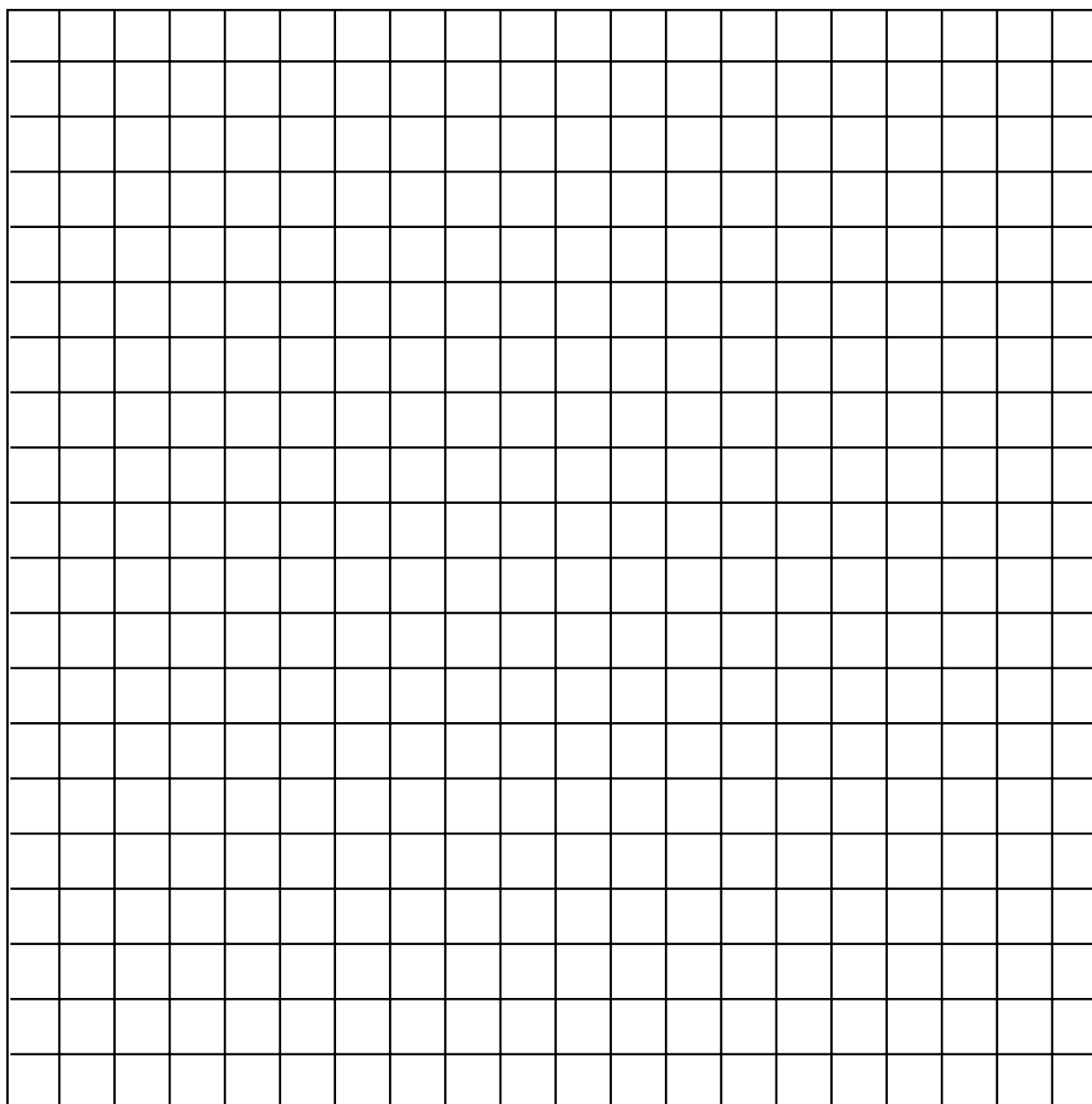
RAGING RECTANGLES



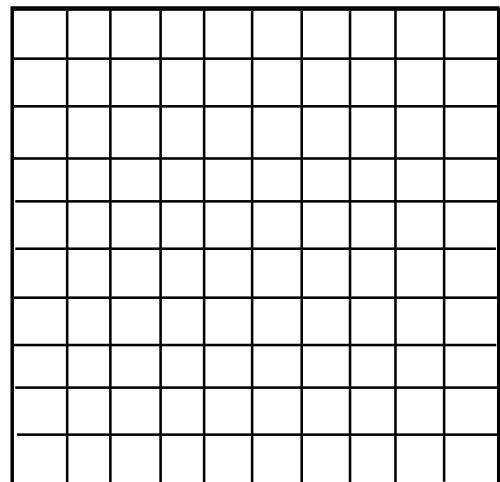
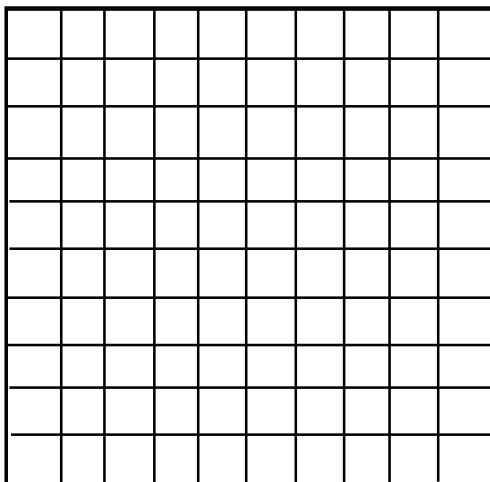
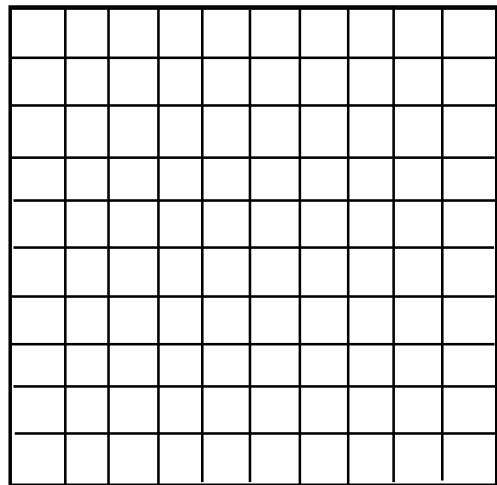
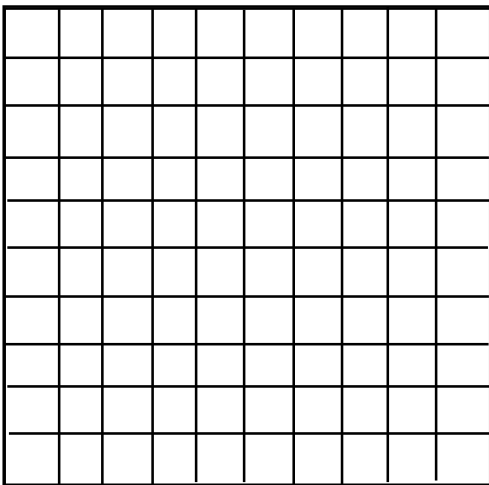
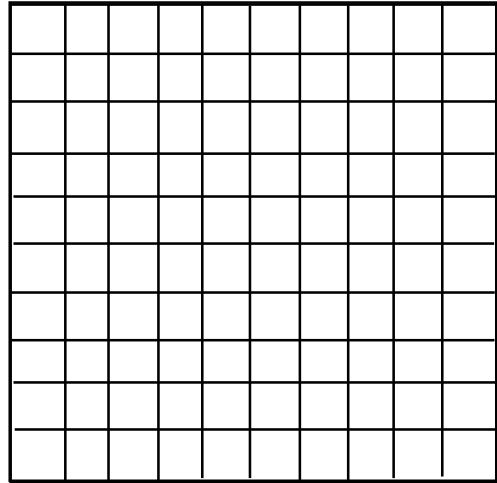
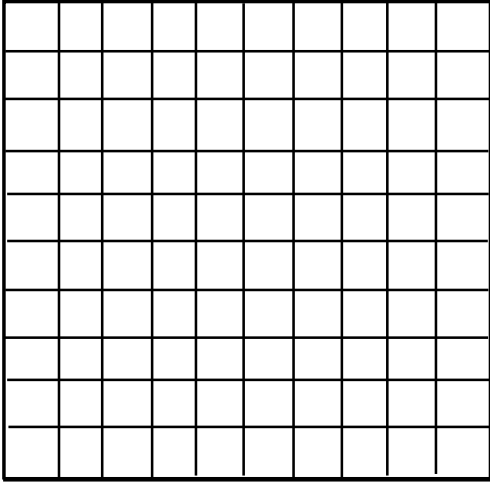
Number of Players: Two

Materials: Two number cubes, gameboard, crayon per player

Directions: In turn each player rolls the cubes. A player outlines and colors a rectangle on the gameboard to match the cubes. (Ex. a roll of 6 and 3 = a 6 x 3 rectangle or a 3 x 6 rectangle). Player writes the total number of squares (area) in the center of the rectangle. A player loses a turn when he rolls and cannot fit his rectangle on the gameboard. Game is over when neither player can draw a rectangle. Winner is the player with the most squares colored on the gameboard.



Name _____ Date ____/____/____



Name _____ Date ____/____/____

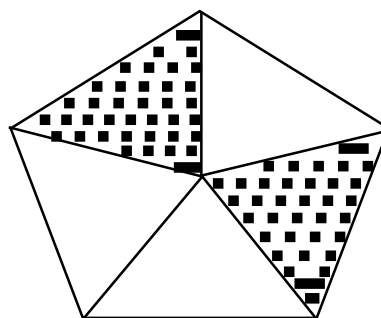
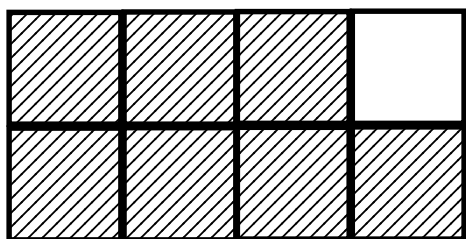
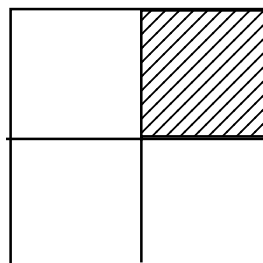
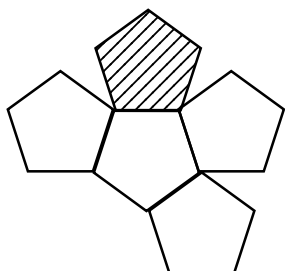
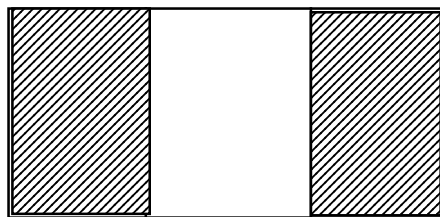
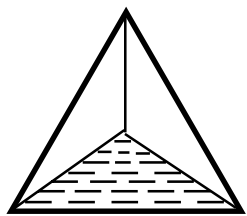
My North Carolina Trip

| Begin | End | No. of Days | Distance |
|-------|-----|-------------|----------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Name _____ Date ____/____/____

My North Carolina Trip

| Begin | End | No. of Days | Distance |
|-------|-----|-------------|----------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



$$\frac{2}{16}$$

$$\frac{3}{24}$$

$$\frac{6}{8}$$

$$\frac{9}{12}$$

$$\frac{1}{12}$$

$$\frac{1}{2}$$

$$\frac{1}{10}$$

$$\frac{1}{3}$$

$$\frac{5}{8}$$

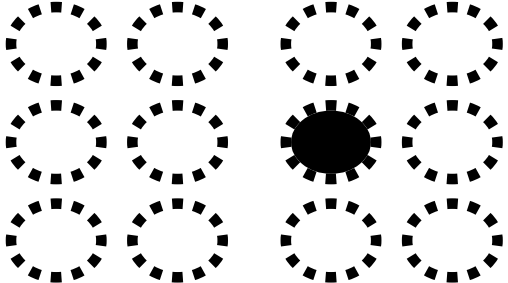
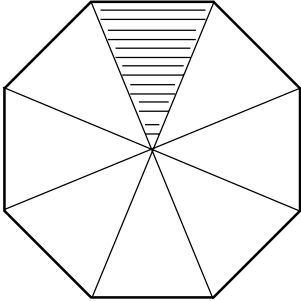
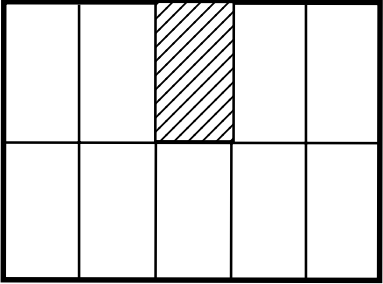
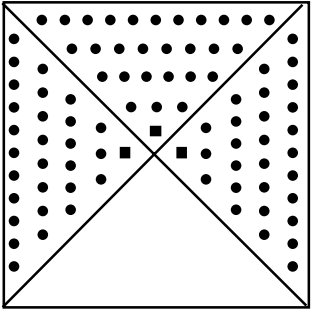
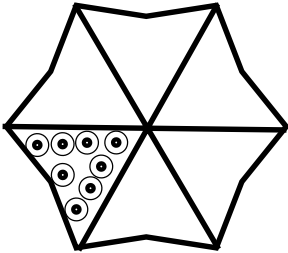
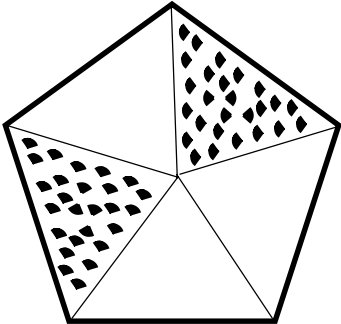
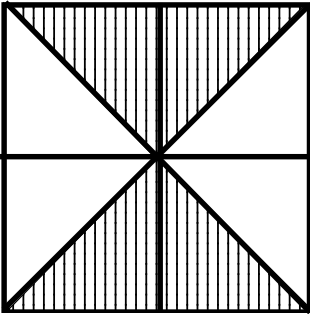
$$\frac{1}{4}$$

$$\frac{1}{8}$$

$$\frac{2}{3}$$


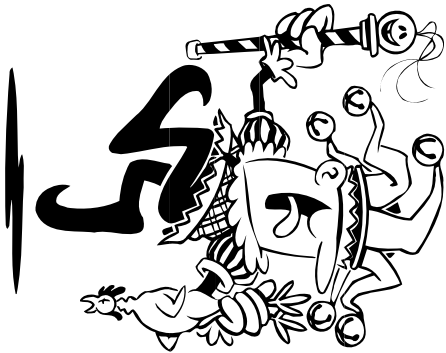




$$\frac{3}{4}$$

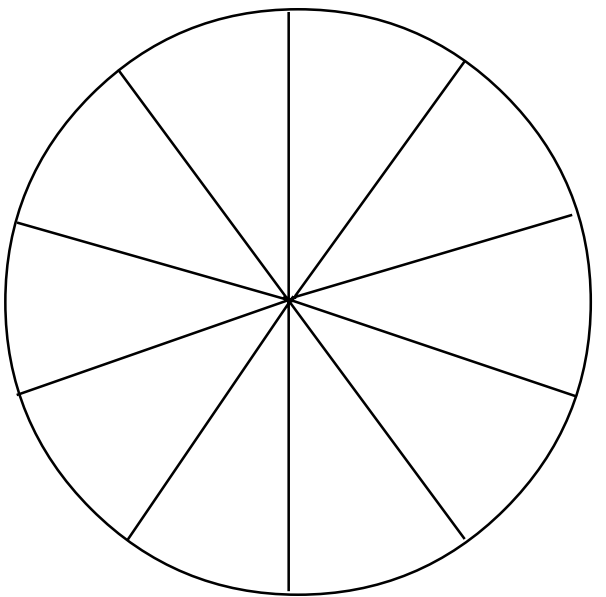
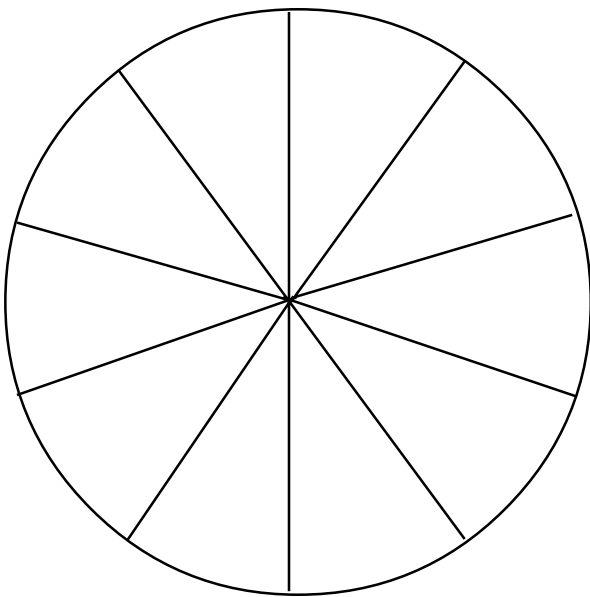
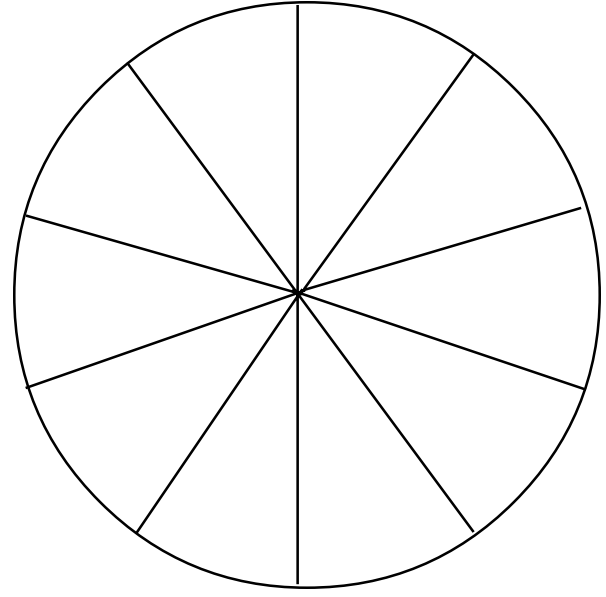
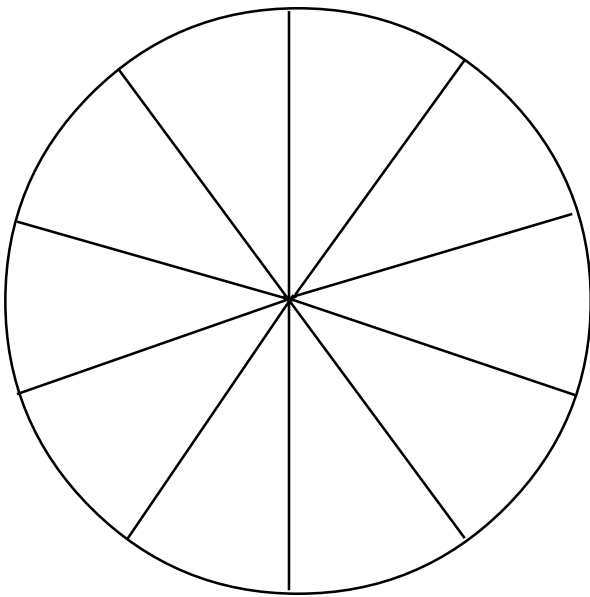
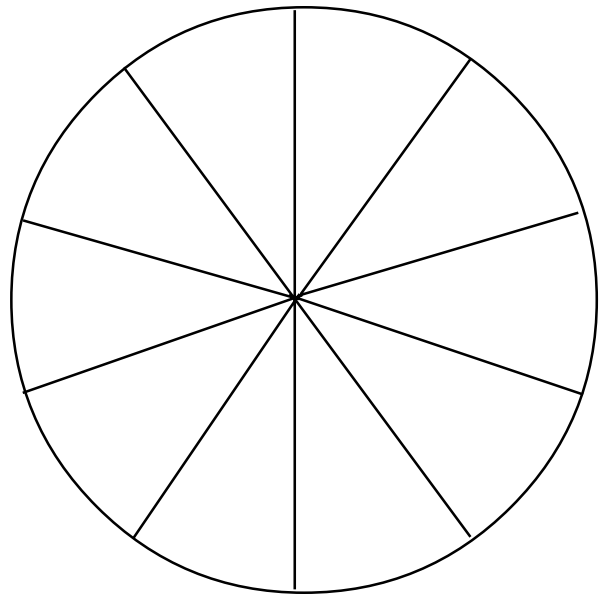
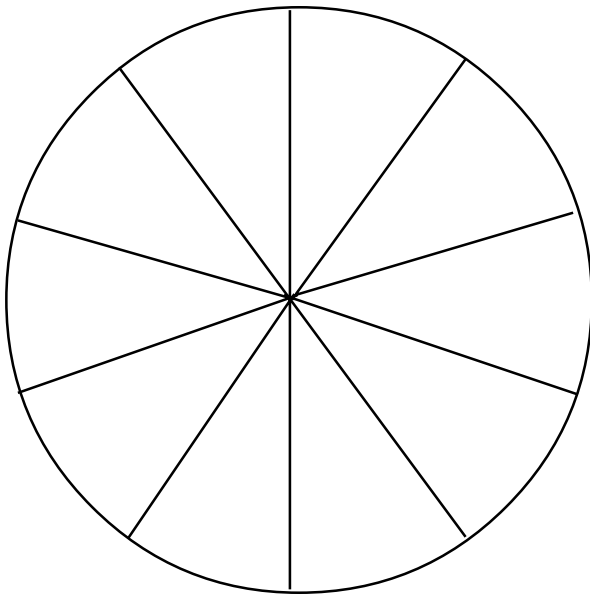
$$\frac{1}{5}$$

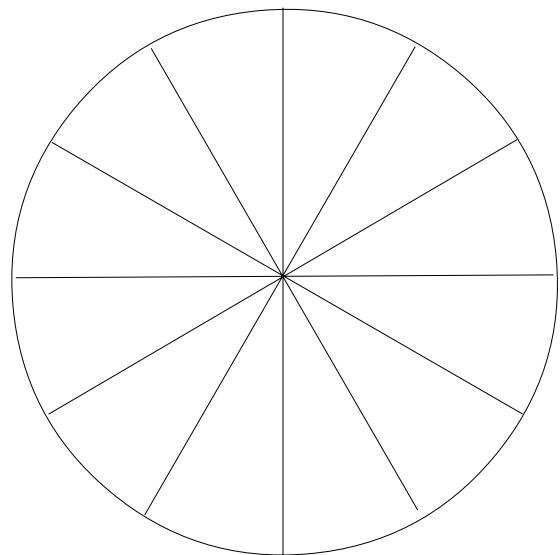
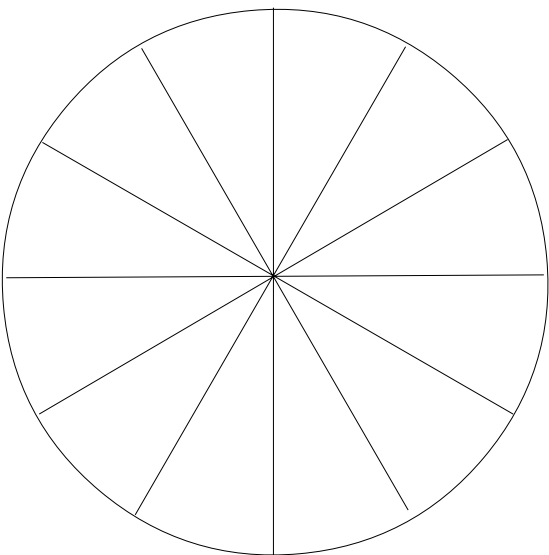
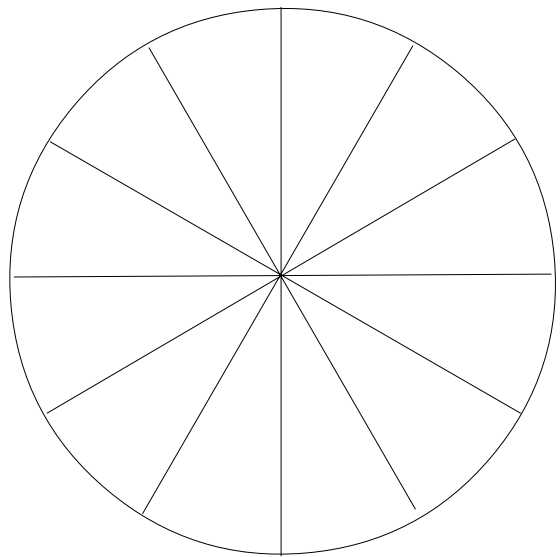
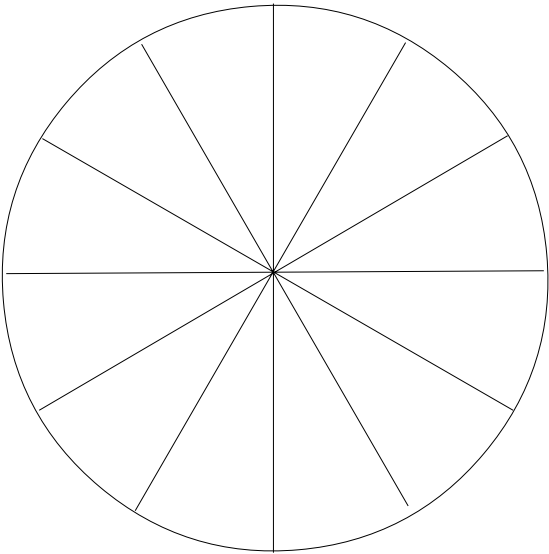
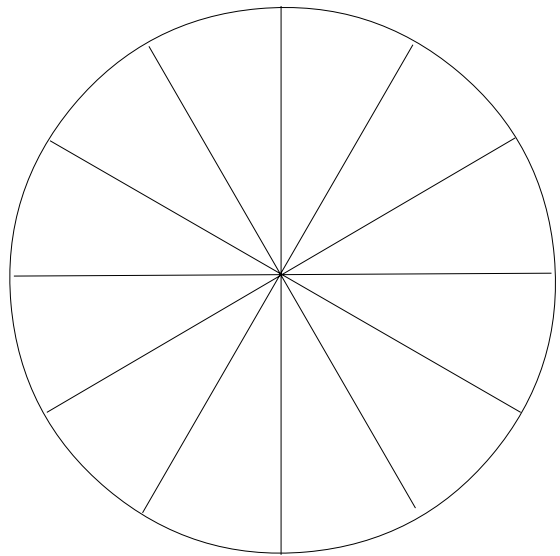
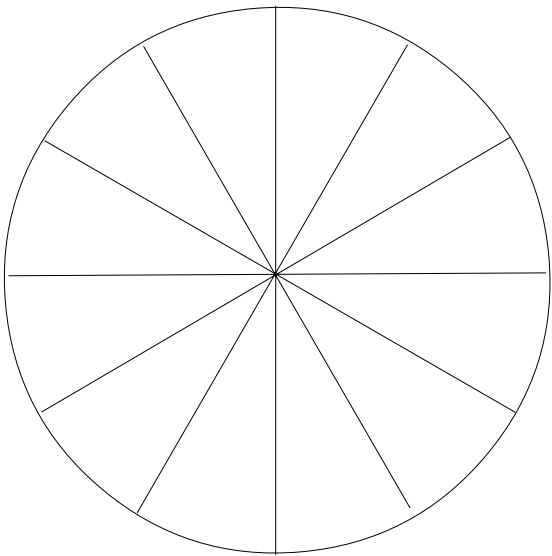
| | |
|---|--|
| $\frac{2}{5}$ |  |
| $\frac{1}{6}$ |  |
| $\frac{7}{8}$ |  |
|  |  |
|  |  |

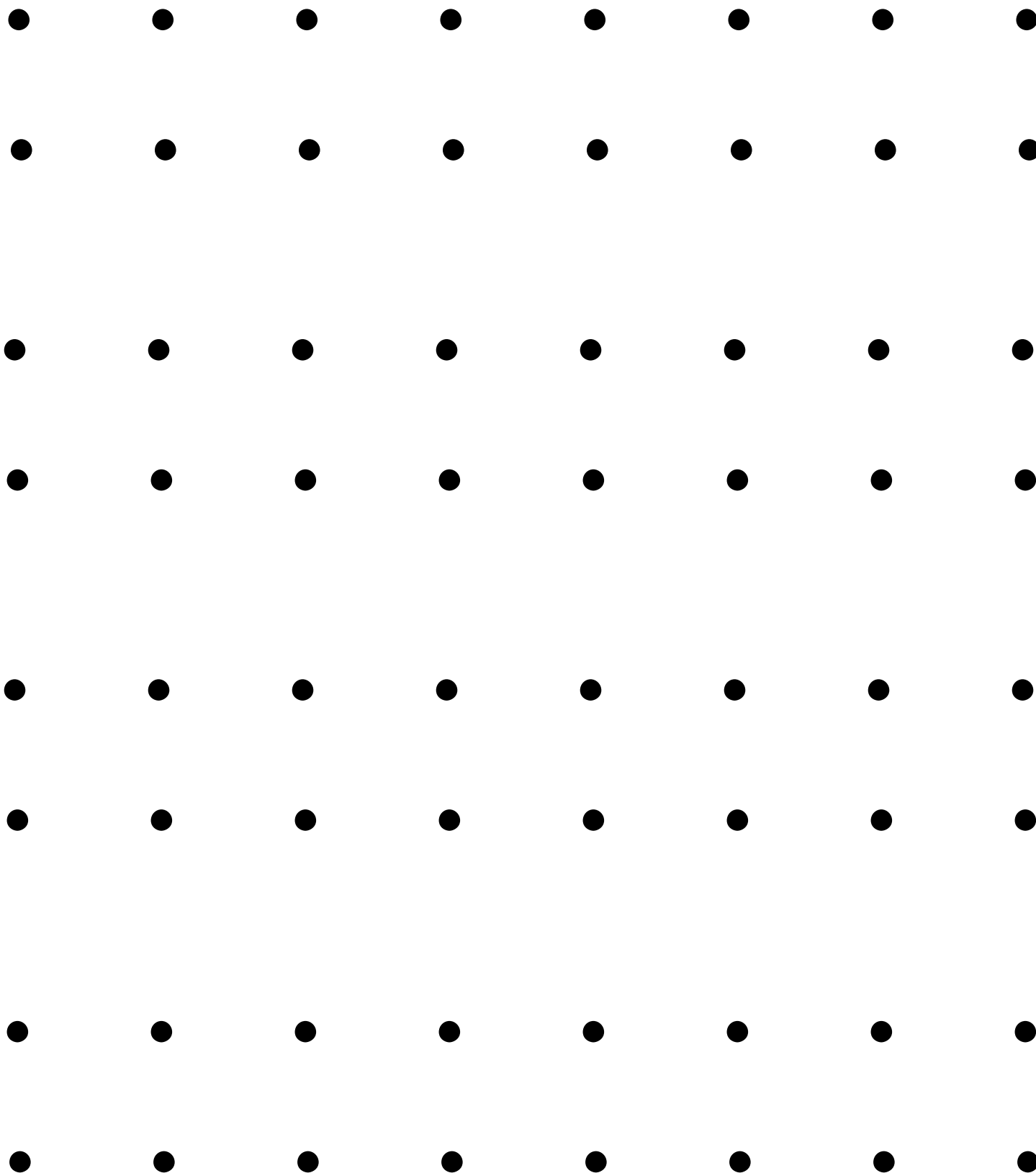
| | | | | |
|----------------|----------------|-----------------|-----------------|----------------|
| $\frac{2}{24}$ | $\frac{3}{36}$ | $\frac{15}{24}$ | $\frac{21}{24}$ | $\frac{2}{12}$ |
| $\frac{2}{20}$ | $\frac{3}{30}$ | $\frac{10}{16}$ | $\frac{14}{16}$ | $\frac{3}{18}$ |

| | | | | | |
|---------------|----------------|----------------|----------------|----------------|----------------|
| $\frac{2}{8}$ | $\frac{3}{12}$ | $\frac{6}{12}$ | $\frac{4}{6}$ | $\frac{8}{12}$ | $\frac{4}{20}$ |
| $\frac{2}{6}$ | $\frac{4}{12}$ | $\frac{5}{10}$ | $\frac{2}{10}$ | | |

| | |
|---|--|
| | |
| $\frac{4}{10}$ | $\frac{6}{15}$ |
|  |  |
|  |  |
|  |  |







Hundred Board

| | | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 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 |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 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 |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 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 |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 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 |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 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 |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 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 |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 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 |

Two Hundred Board

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 |
| 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 |
| 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 |
| 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 |
| 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 |
| 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 |
| 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 |
| 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |

Three Hundred Board

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 |
| 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 |
| 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 |
| 231 | 232 | 233 | 234 | 235 | 236 | 137 | 238 | 239 | 240 |
| 241 | 242 | 243 | 244 | 245 | 246 | 147 | 248 | 249 | 250 |
| 251 | 252 | 253 | 254 | 255 | 256 | 157 | 258 | 259 | 260 |
| 261 | 262 | 263 | 264 | 265 | 266 | 167 | 268 | 269 | 270 |
| 271 | 272 | 273 | 274 | 275 | 276 | 177 | 278 | 279 | 280 |
| 281 | 282 | 283 | 284 | 285 | 286 | 187 | 288 | 289 | 290 |
| 291 | 292 | 293 | 294 | 295 | 296 | 197 | 298 | 299 | 300 |

DIZZY DIVISION

$$\begin{array}{r} 779 \\ 8 \overline{) 6,334} \\ \underline{56} \\ 63 \\ \underline{56} \\ 74 \\ \underline{74} \\ 0 \end{array}$$

$$\begin{array}{r} 24 \text{ r } 5 \\ 20 \overline{) 4,098} \\ \underline{40} \\ 98 \\ \underline{80} \\ 8 \end{array}$$

$$\begin{array}{r} 964 \text{ r } 5 \\ 6 \overline{) 5,809} \\ \underline{54} \\ 40 \\ \underline{38} \\ 29 \\ \underline{24} \\ 5 \end{array}$$

$$\begin{array}{r} 3007 \text{ r } 1 \\ 9 \overline{) 2,764} \\ \underline{27} \\ 06 \\ \underline{0} \\ 64 \\ \underline{63} \\ 1 \end{array}$$



$$\begin{array}{r} 180 \\ 9 \overline{) 972} \\ \underline{9} \\ 72 \\ \underline{72} \\ 0 \end{array}$$

$$\begin{array}{r} 59 \\ 8 \overline{) 4,072} \\ \underline{40} \\ 07 \\ \underline{0} \\ 72 \\ \underline{72} \\ 0 \end{array}$$

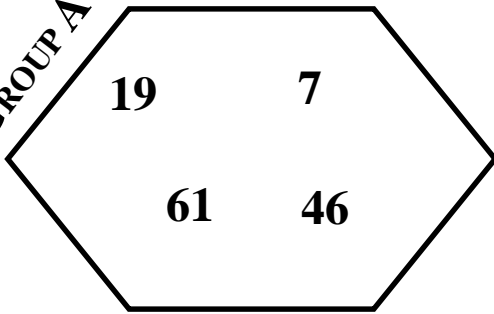
$$\begin{array}{r} 961 \text{ r } 5 \\ 7 \overline{) 6,831} \\ \underline{64} \\ 43 \\ \underline{42} \\ 11 \\ \underline{7} \\ 5 \end{array}$$

$$\begin{array}{r} 854 \text{ r } 1 \\ 5 \overline{) 4,281} \\ \underline{40} \\ 28 \\ \underline{25} \\ 21 \\ \underline{20} \\ 1 \end{array}$$

YOU BE THE JUDGE!

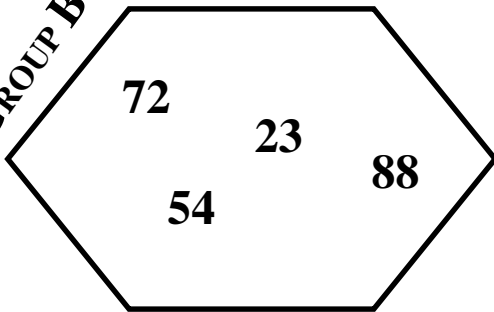
| | |
|--|---|
| <p>Three students worked on their homework assignments. John read his library book for one-third of an hour. Jim completed his math problems in one-sixth of an hour. Maria studied her spelling words for $6\frac{1}{12}$ of an hour. The amount of time the three students spent on their homework is less than one hour.</p> | <p>Sam ate three of the eight cookies mother baked. Ben ate one of the eight cookies. Together they ate $\frac{4}{16}$ of the cookies.</p> |
| <p>Susan walked her dog for a quarter mile on Monday and for for half a mile on Tuesday. On Wednesday, Susan walked her dog for $\frac{5}{8}$ of a mile.</p> <p>If her goal is to walk for one and a half miles for the week, Susan only needs to walk a total of a quarter mile on Thursday and Friday.</p> | <p>For a fifth grade student to stay healthy, one-fifth of the foods eaten should be vegetables and two-fifths of the foods eaten should be grains. Therefore, 0.3 of the foods that a fifth grader eats should be vegetables and grains.</p> |
| <p>At the deli, Jay ordered 1.25 pounds of ham, 1.50 pounds of turkey, and 0.75 pounds of cheese. Jay purchased a total of $2\frac{3}{4}$ pounds of food.</p> | $4\frac{3}{6} + 1\frac{5}{6} = 6\frac{1}{3}$ |
| <p>Jane and Bill need $2\frac{1}{4}$ cups of cucumbers, 1 cup of onions, and $\frac{2}{4}$ cup of cheese to make a snack. The total amount of vegetables needed to make their snack equals $3\frac{3}{4}$ cups.</p> | $\frac{3}{4} + \frac{1}{2} + \frac{1}{4} + \frac{4}{8} + \frac{8}{8} + \frac{1}{4} = 3\frac{1}{4}$ |

GROUP A

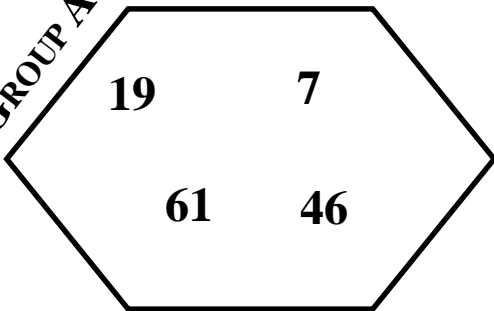


| | | | |
|------|------|------|------|
| 3000 | 140 | 1400 | 4500 |
| 1800 | 4200 | 400 | 1200 |
| 1000 | 350 | 3500 | 630 |
| 490 | 5400 | 1000 | 2500 |

GROUP B

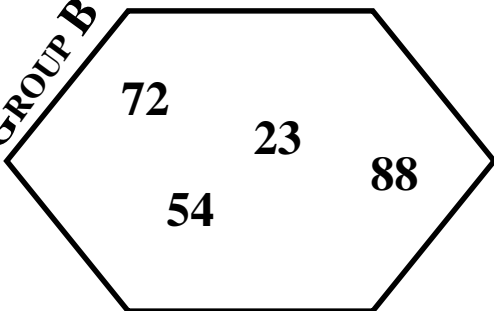


GROUP A



| | | | |
|------|------|------|------|
| 3000 | 140 | 1400 | 4500 |
| 1800 | 4200 | 400 | 1200 |
| 1000 | 350 | 3500 | 630 |
| 490 | 5400 | 1000 | 2500 |

GROUP B



Range Cards



0 - 10

10 - 20

20 - 30

30 - 40

$$514 \div 15$$

$$629 \div 17$$

$$808 \div 43$$

$$463 \div 22$$

$$89 \div 11$$

$$900 \div 24$$

$$203 \div 29$$

$$864 \div 62$$

$$84 \div 26$$

$$620 \div 24$$

$$945 \div 41$$

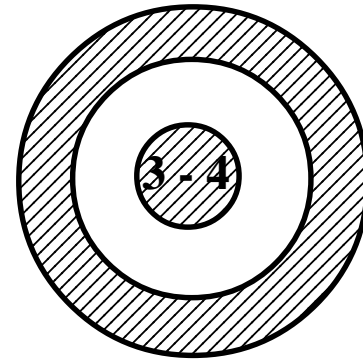
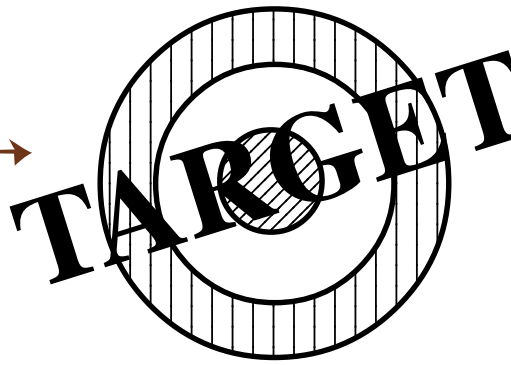
$$86 \div 43$$

$$93 \div 31$$

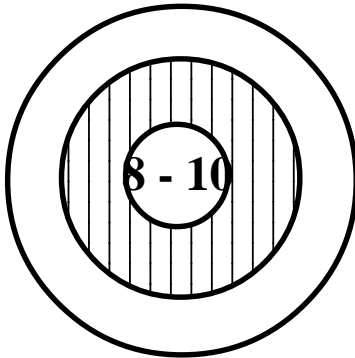
$$502 \div 37$$

$$982 \div 42$$

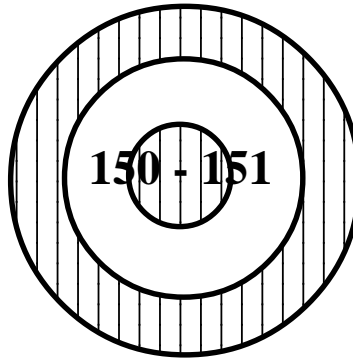
Two players need a calculator, two number cubes, and pencil and paper to record scores. The flow chart below gives the directions for play. Each round uses a different target. The goal is to get a product within the designated range. The winner is the player with the most points at the end of 7 rounds.



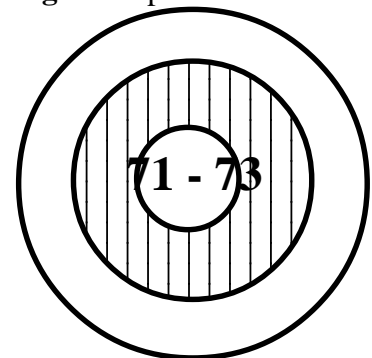
Target 1: 4 points



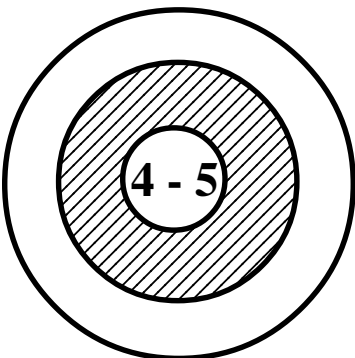
Target 2: 3 points



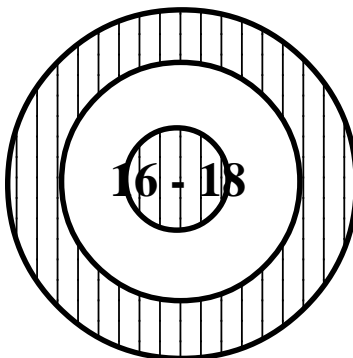
Target 3: 2 points



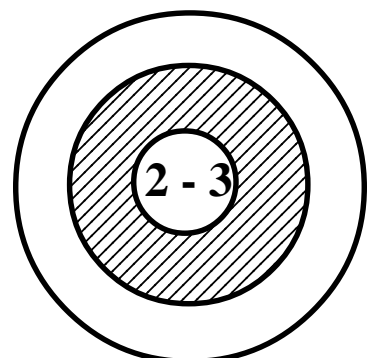
Target 4: 3 points



Target 5: 4 points



Target 6: 3 points



Target 7: 4 points

