

Mathematics Blackline Masters for Class VI

For use during teaching-learning process

Student Name: _____

School: _____



Department of School Education
Ministry of Education and Skills Development
Thimphu

UNIT 1 FRACTIONS AND DECIMALS

BLM 1 Fraction Match Game Cards

| | | | | | |
|----------------|-----------------------------|----------------|-----------------------------|--------------------------------|-----------------------------|
| $\frac{1}{2}$ | 0.35 | $1\frac{2}{3}$ | $\frac{2}{5} + \frac{2}{5}$ | $\frac{12}{3}$ | 0.23 |
| 4 | $\frac{4}{5}$ | $\frac{4}{6}$ | $\frac{5}{3}$ | $3\frac{3}{4}$ | $\frac{4}{8}$ |
| $\frac{5}{8}$ | $4\frac{1}{2}$ | 0.5 | $\frac{9}{2}$ | $\frac{2}{8} + \frac{3}{8}$ | 0.6 |
| $\frac{15}{4}$ | $\frac{7}{8} - \frac{3}{8}$ | $\frac{6}{10}$ | $\frac{23}{100}$ | $\frac{3}{10} + \frac{5}{100}$ | $\frac{5}{6} - \frac{1}{6}$ |

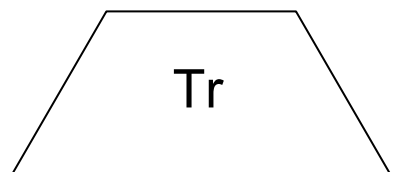
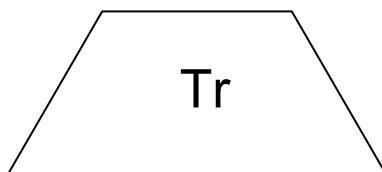
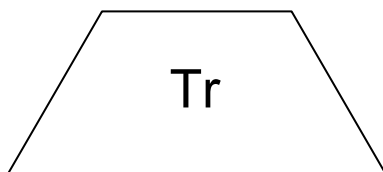
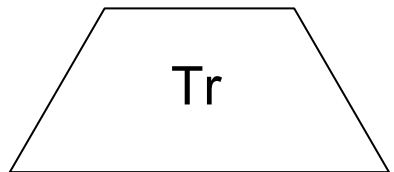
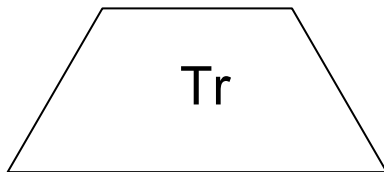
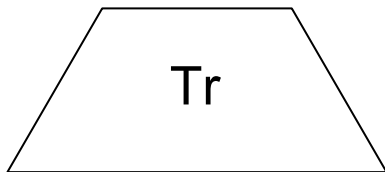
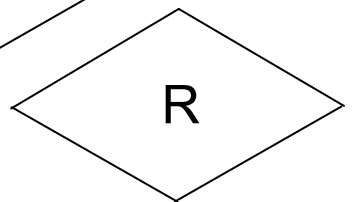
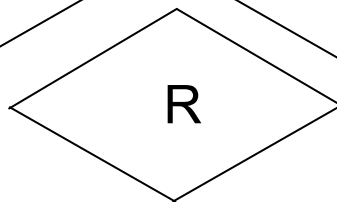
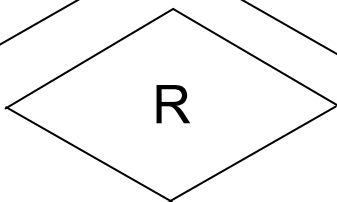
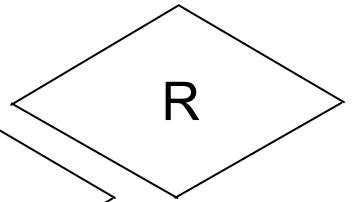
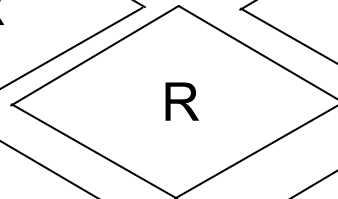
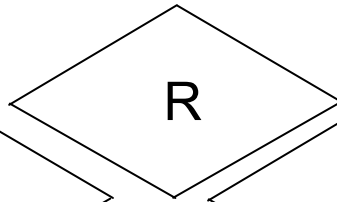
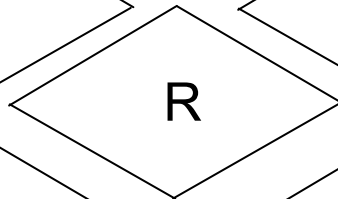
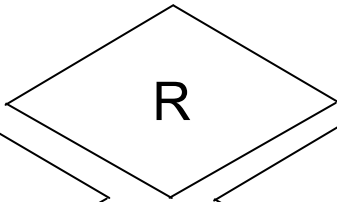
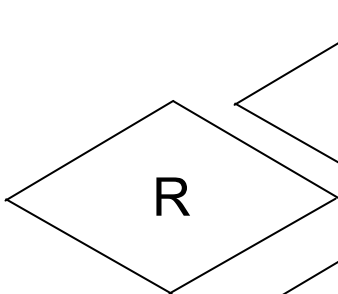
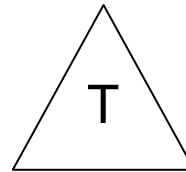
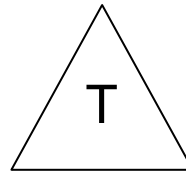
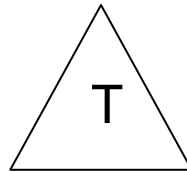
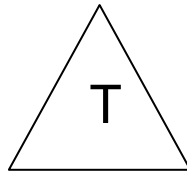
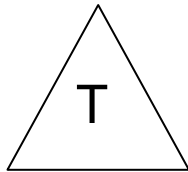
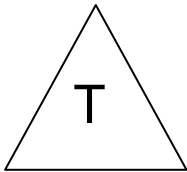
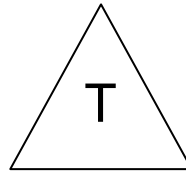
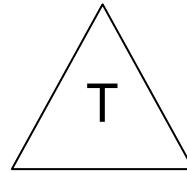
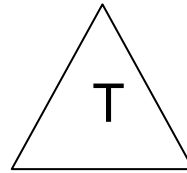
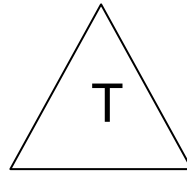
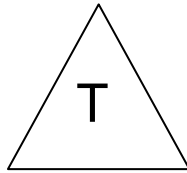
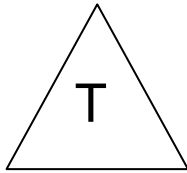
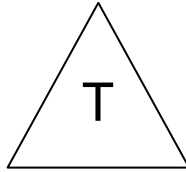
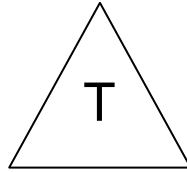
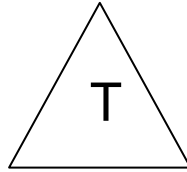
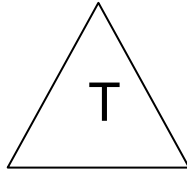
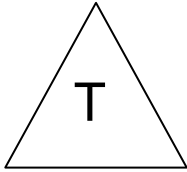
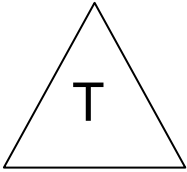
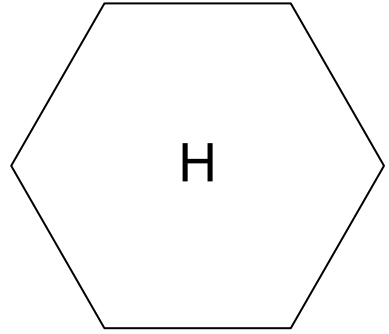
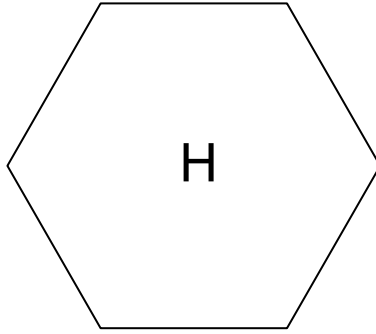
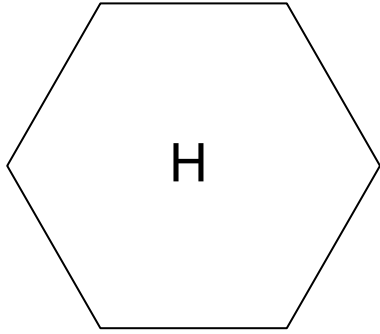
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BLM 2 Fraction Strips

| | | | | | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1 | | | | | | | | | | | |
| $\frac{1}{2}$ | | | | | | $\frac{1}{2}$ | | | | | |
| $\frac{1}{3}$ | | | | $\frac{1}{3}$ | | | | $\frac{1}{3}$ | | | |
| $\frac{1}{4}$ | | | $\frac{1}{4}$ | | | $\frac{1}{4}$ | | | $\frac{1}{4}$ | | |
| $\frac{1}{5}$ | | $\frac{1}{5}$ | | $\frac{1}{5}$ | | $\frac{1}{5}$ | | $\frac{1}{5}$ | | $\frac{1}{5}$ | |
| $\frac{1}{6}$ | | $\frac{1}{6}$ | | $\frac{1}{6}$ | | $\frac{1}{6}$ | | $\frac{1}{6}$ | | $\frac{1}{6}$ | |
| $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ |
| $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ | $\frac{1}{9}$ |
| $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ |
| $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ |

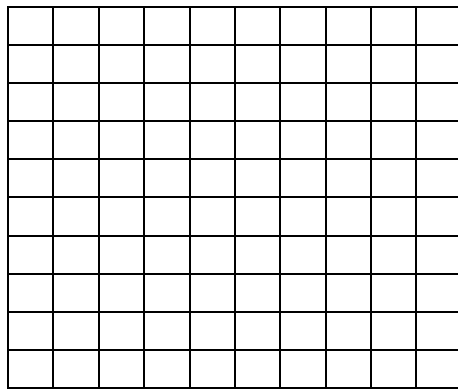
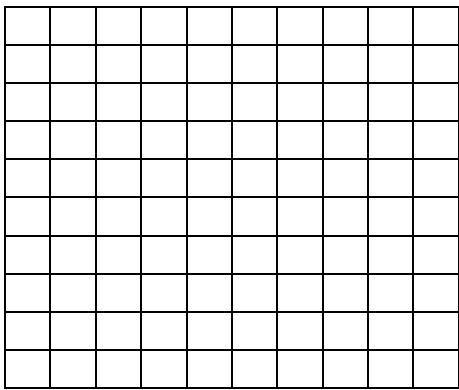
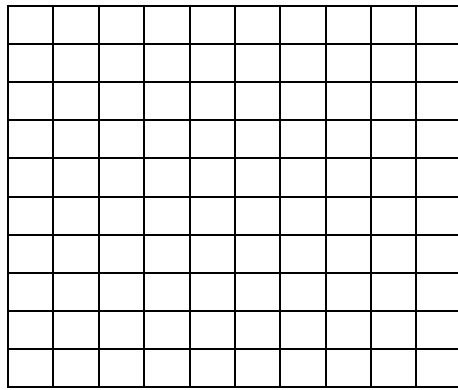
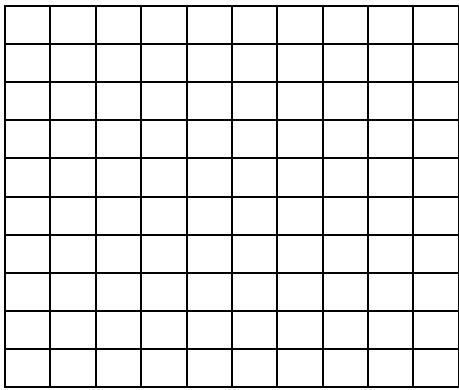
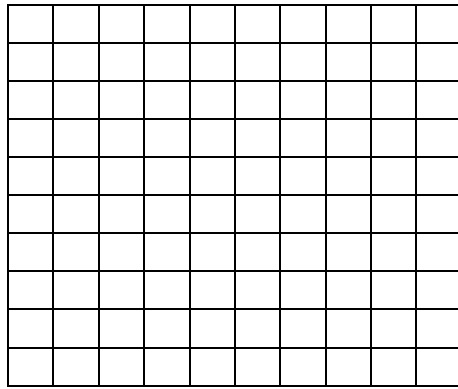
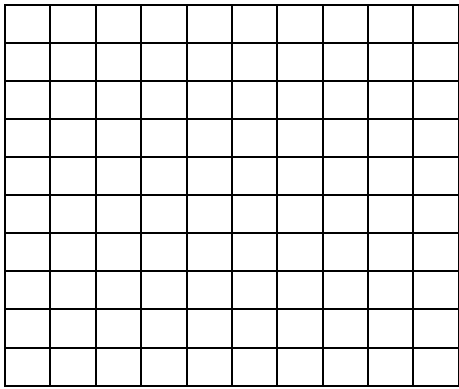
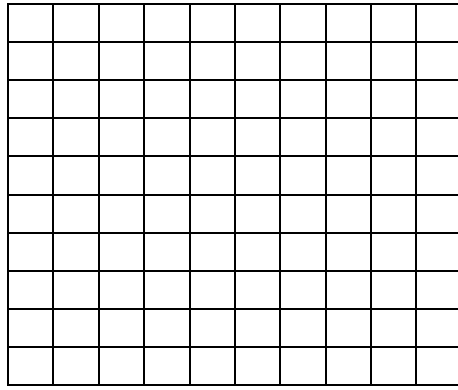
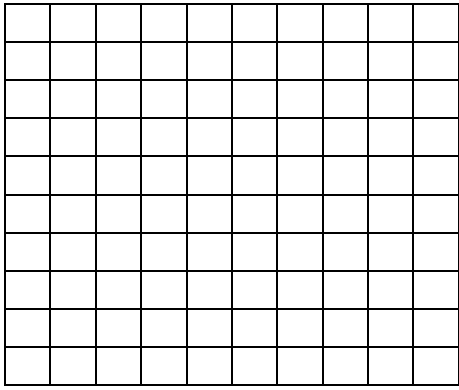
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BLM 3 Pattern Block Fraction Pieces



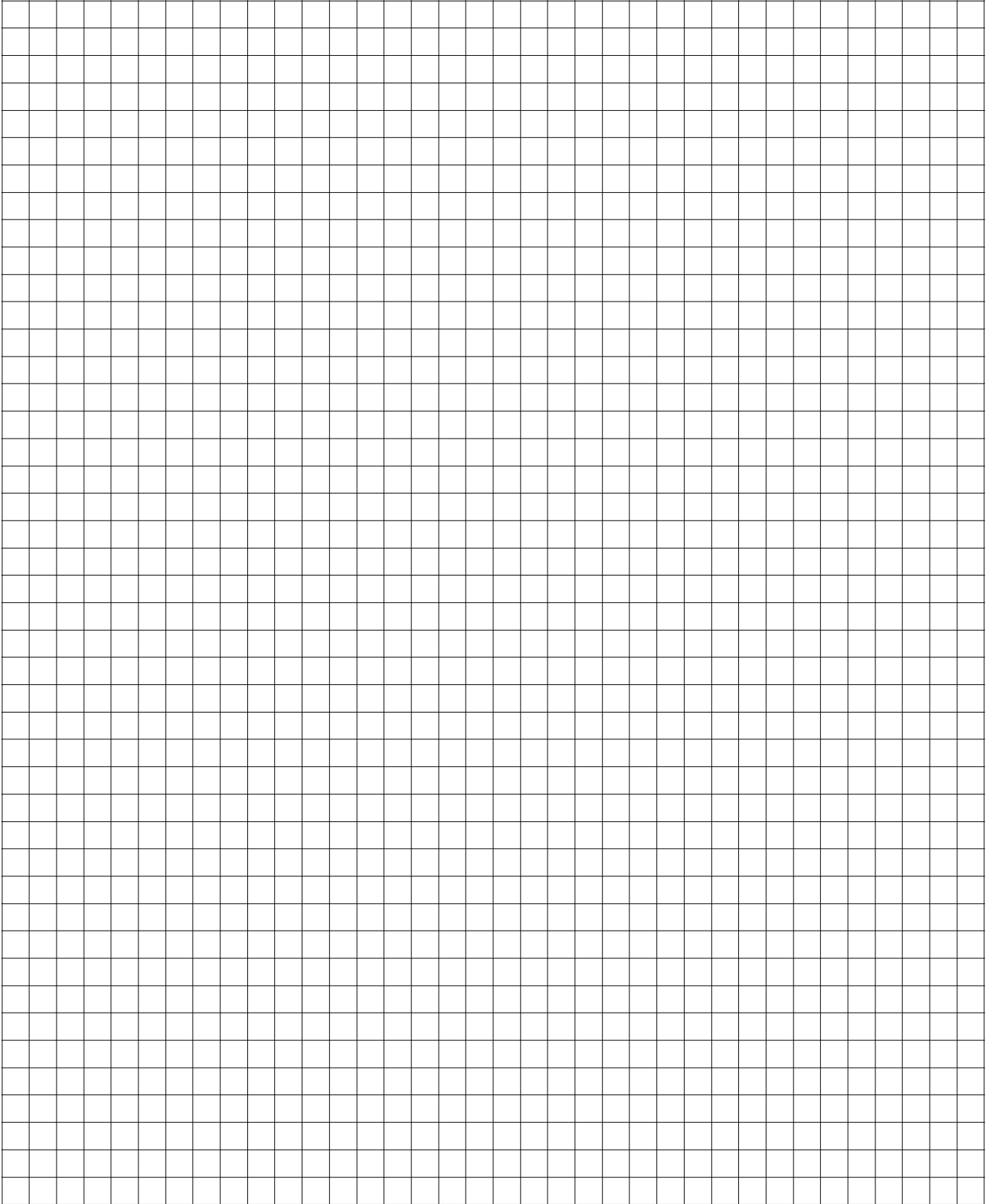
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BLM 4 Hundredths Grids



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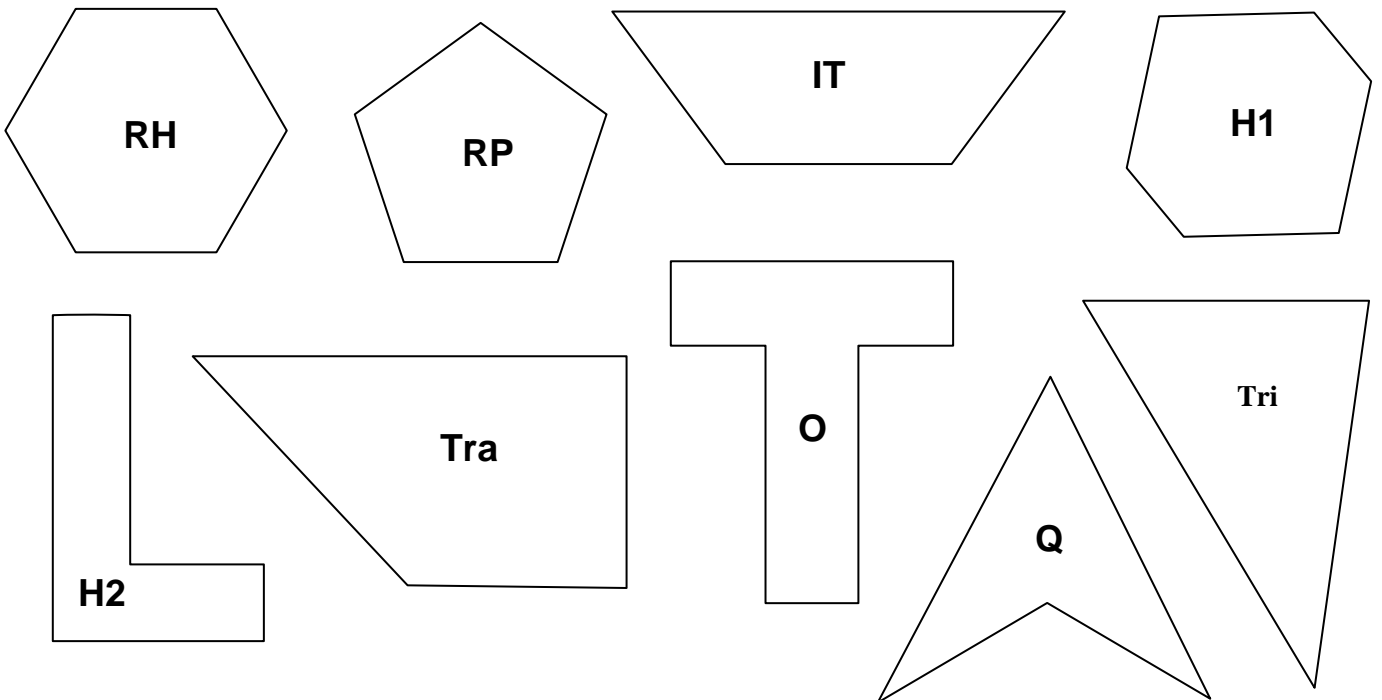
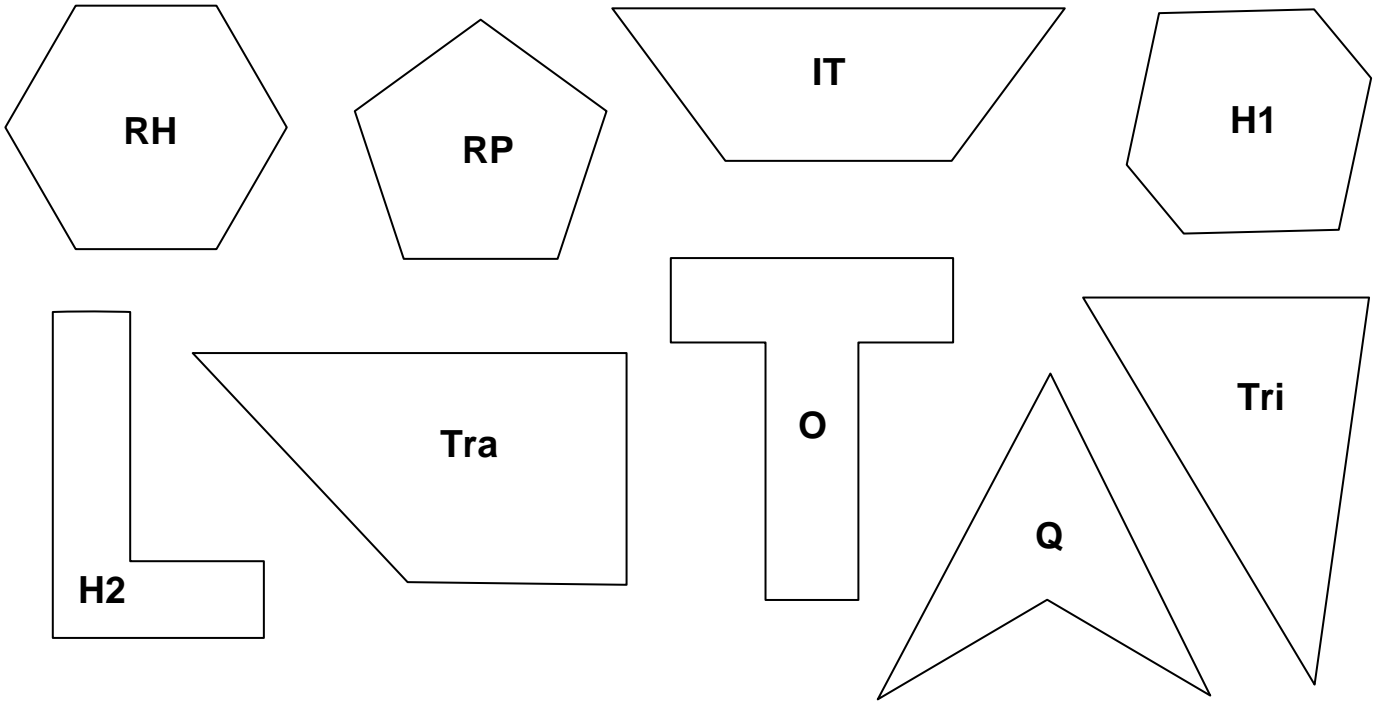
BLM 5 Small Grid Paper



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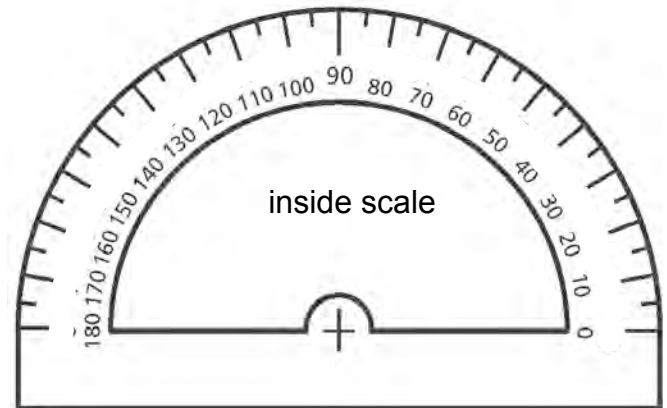
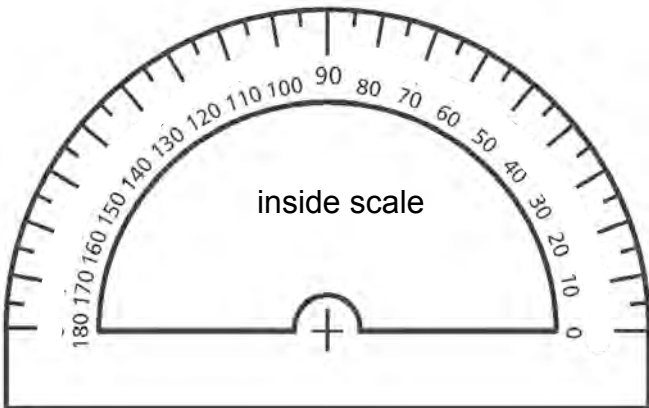
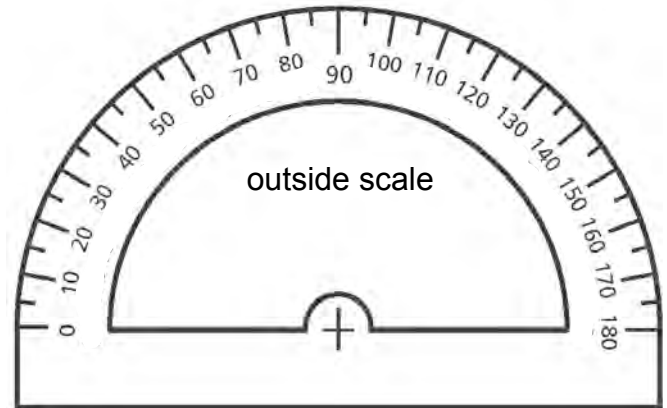
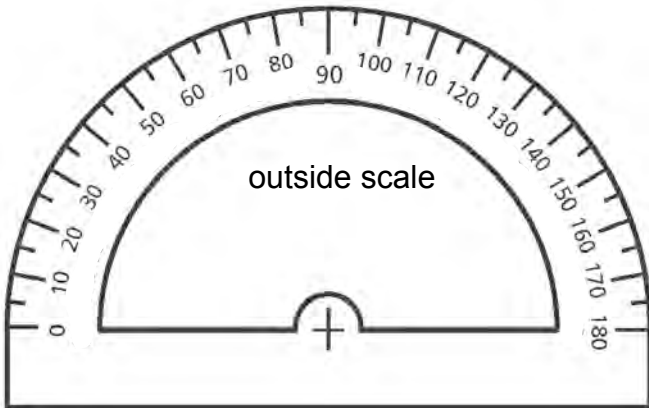
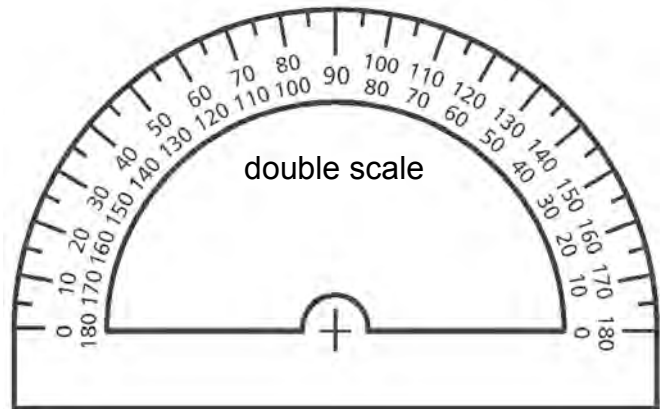
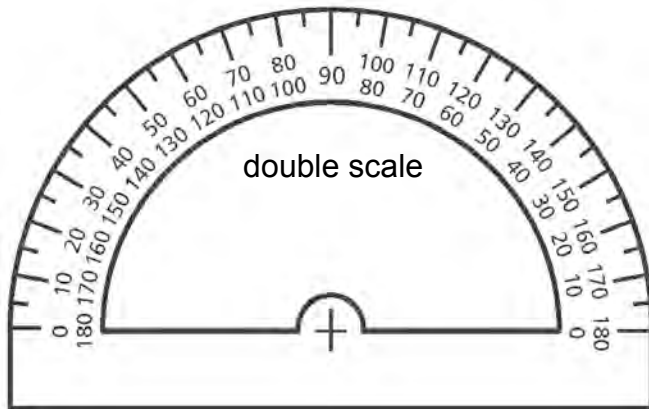
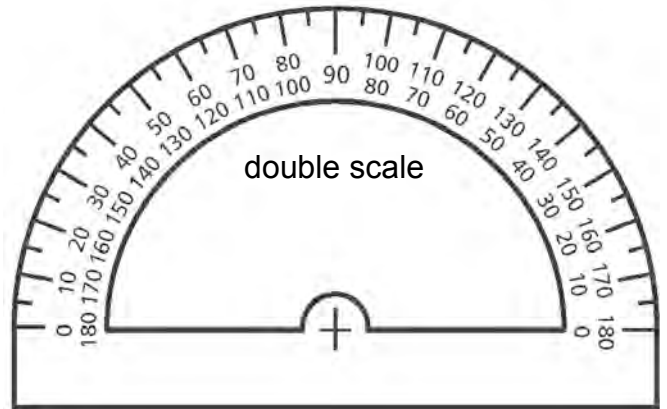
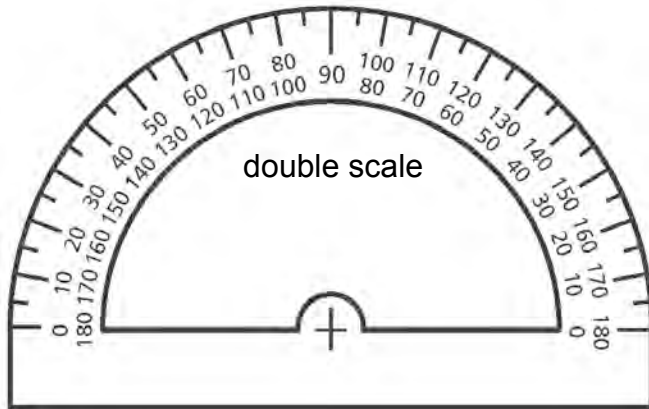
UNIT 2 GEOMETRY

BLM 1 Tessellating Shapes



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BLM 2 Paper Protractors



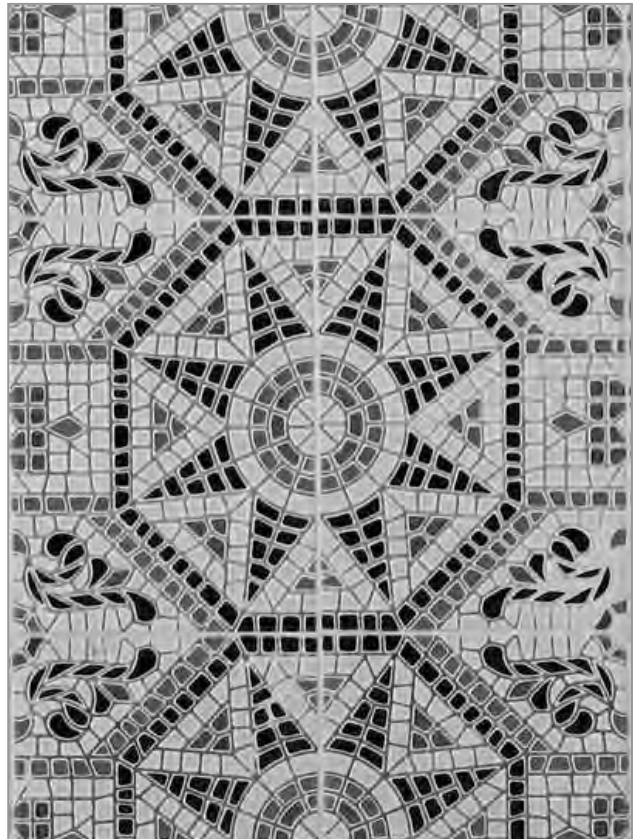
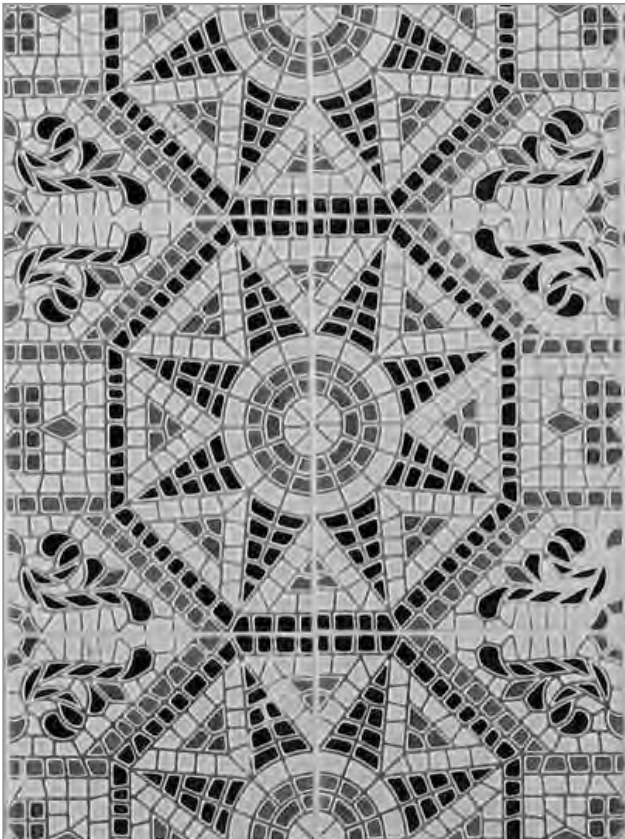
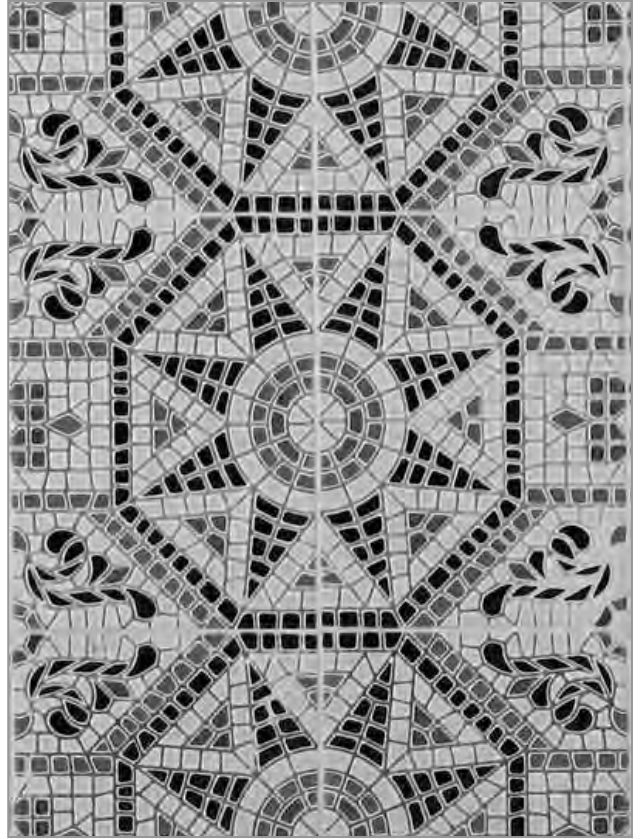
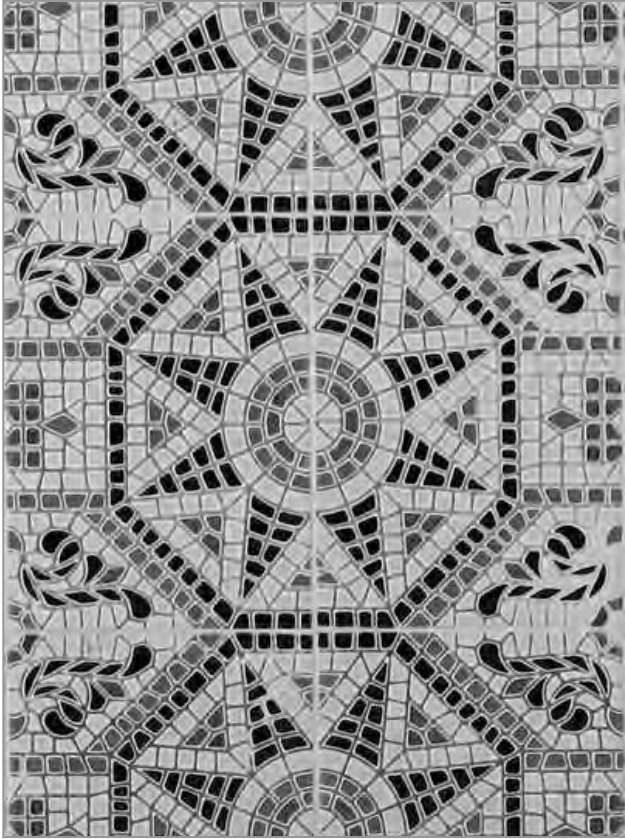
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BLM 3 Field Angles



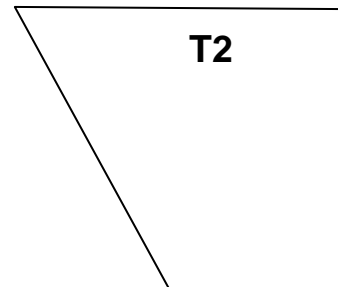
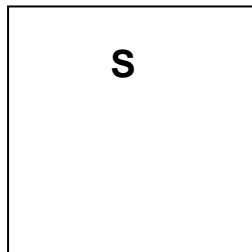
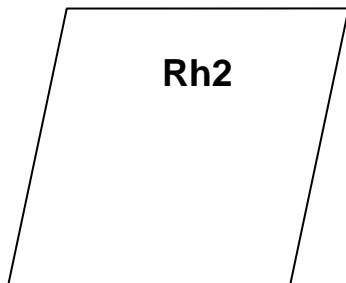
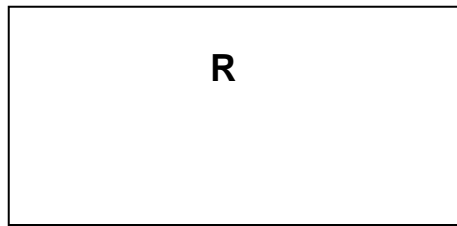
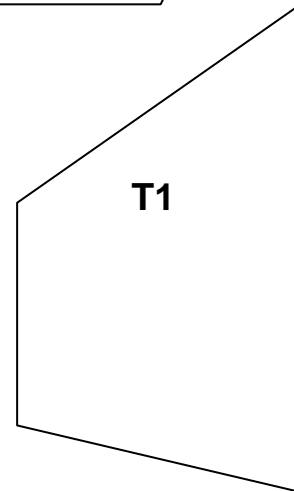
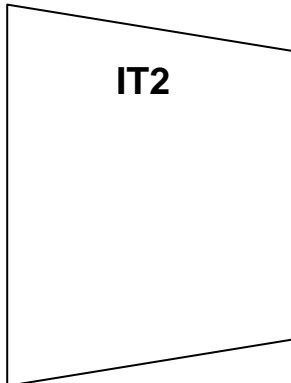
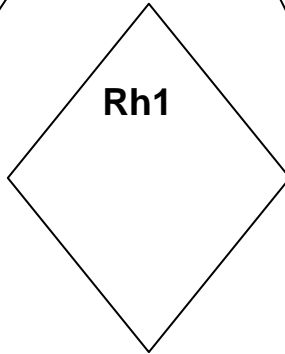
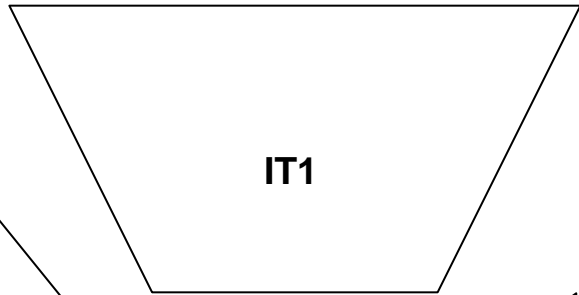
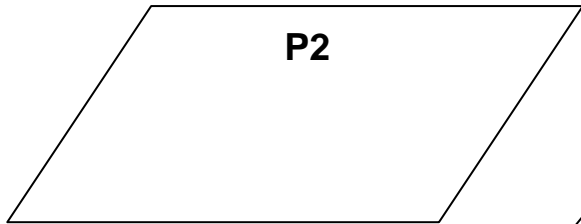
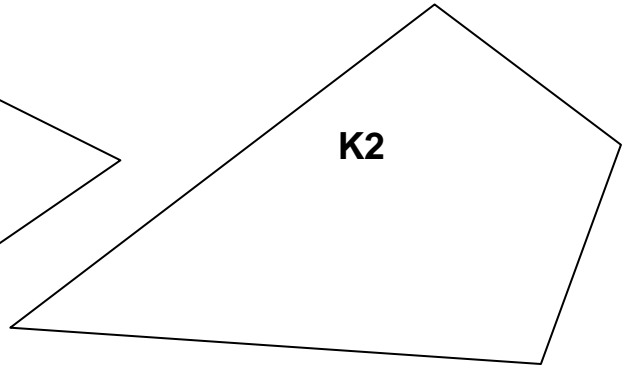
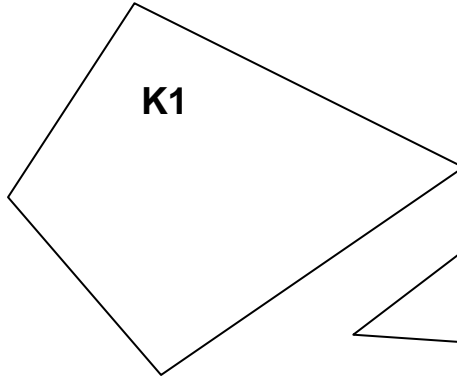
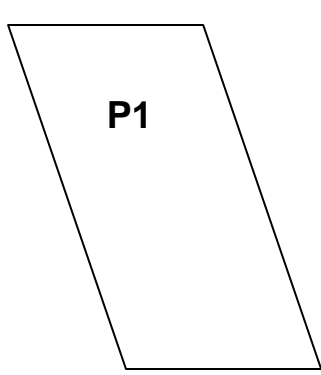
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BLM 4 Angle Bisectors



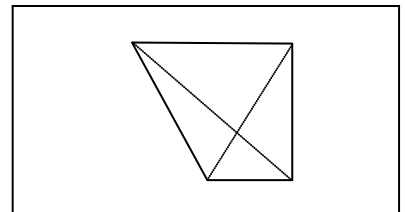
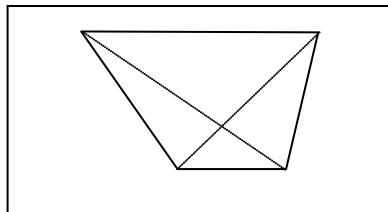
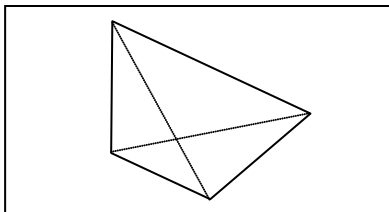
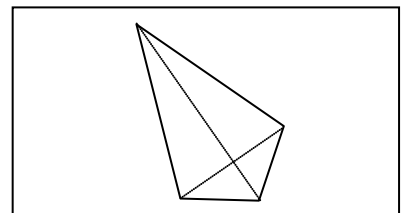
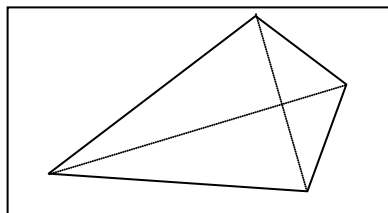
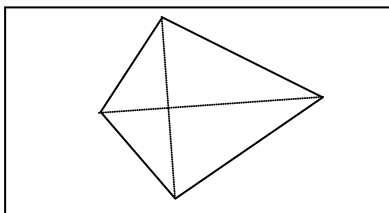
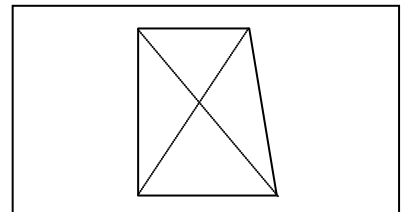
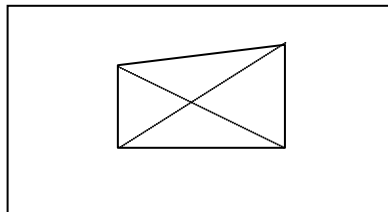
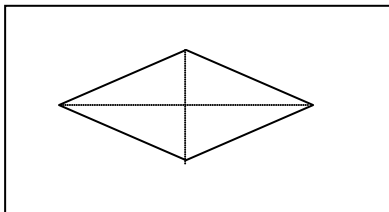
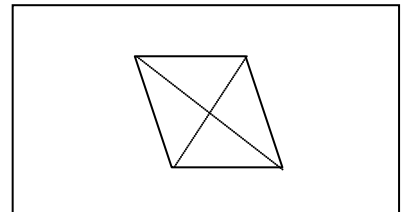
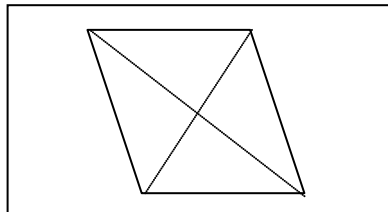
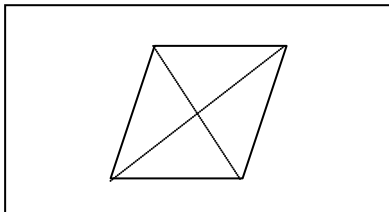
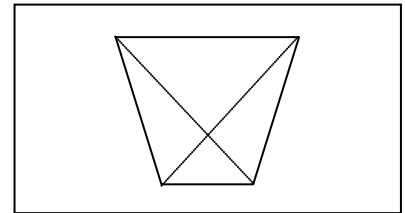
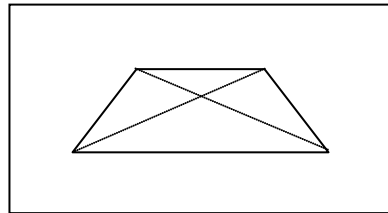
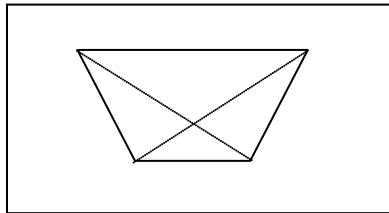
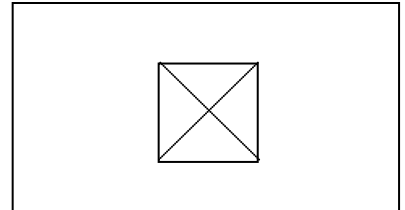
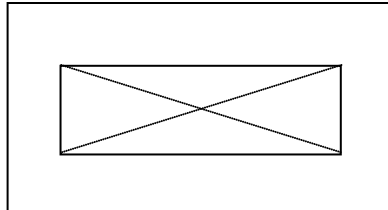
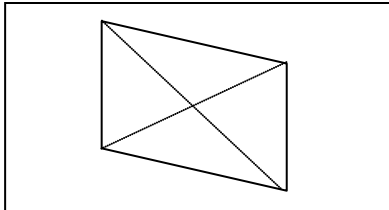
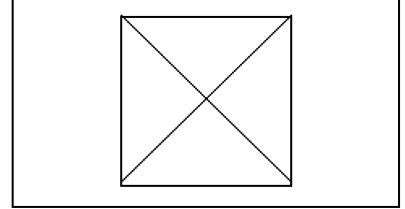
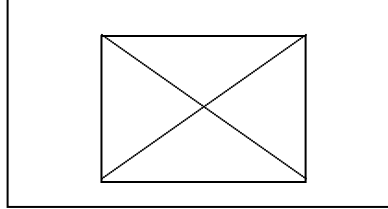
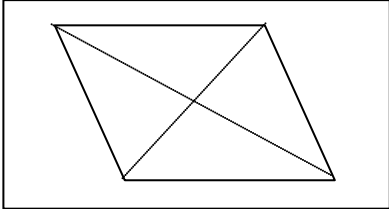
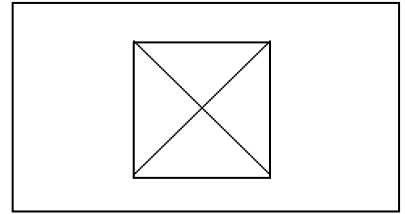
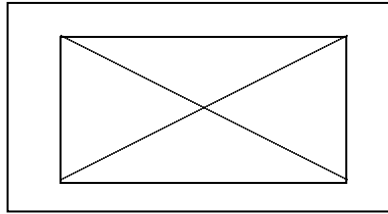
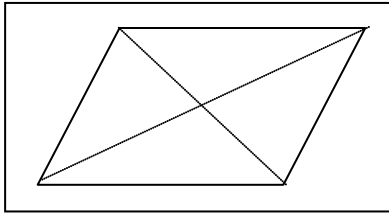
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BLM 5 Sorting Quadrilaterals



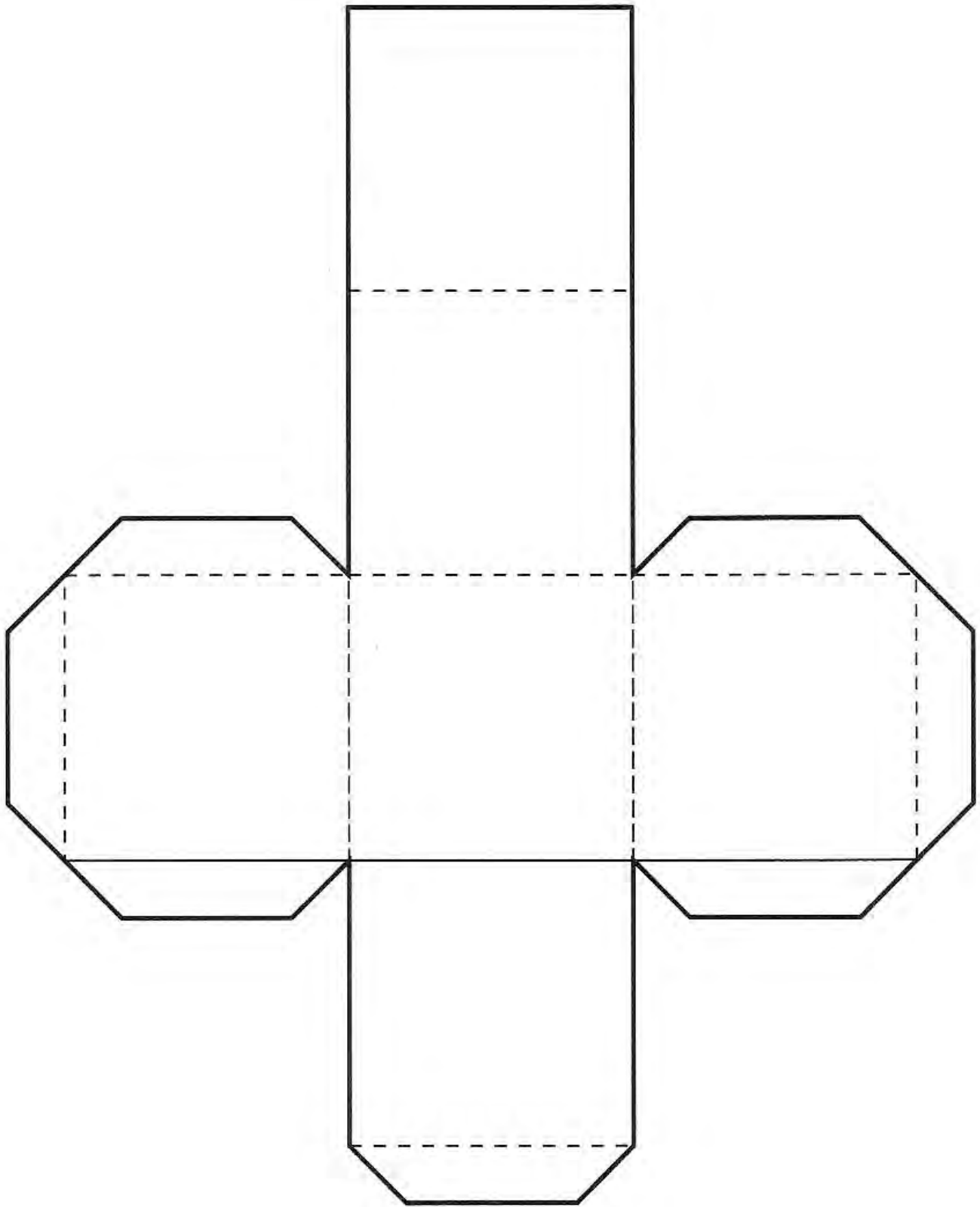
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BLM 6 Go Fish Game Cards



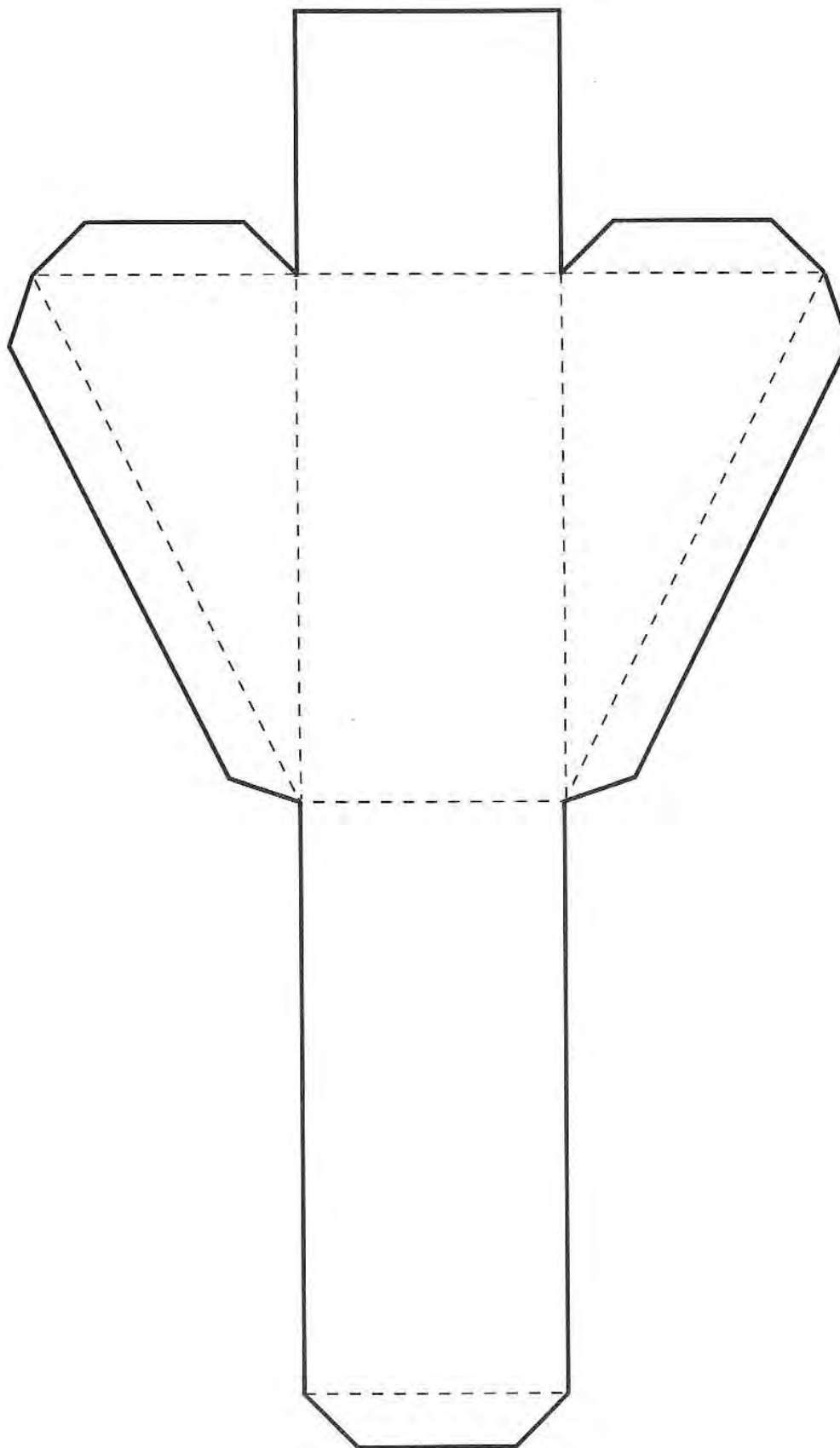
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BLM 7 Sample Net of Cube



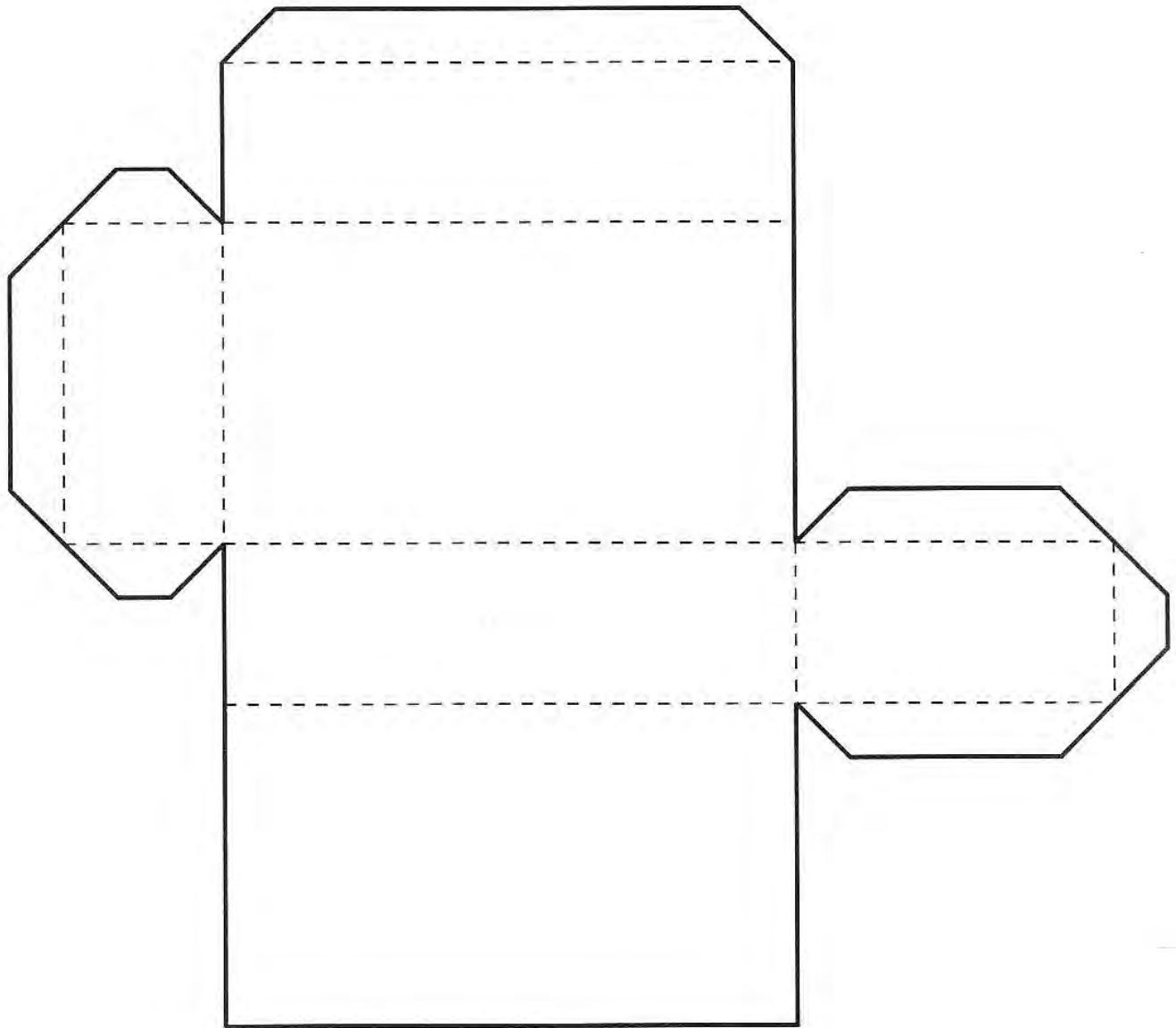
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BLM 8 Sample Net of Right Triangle-based Prism



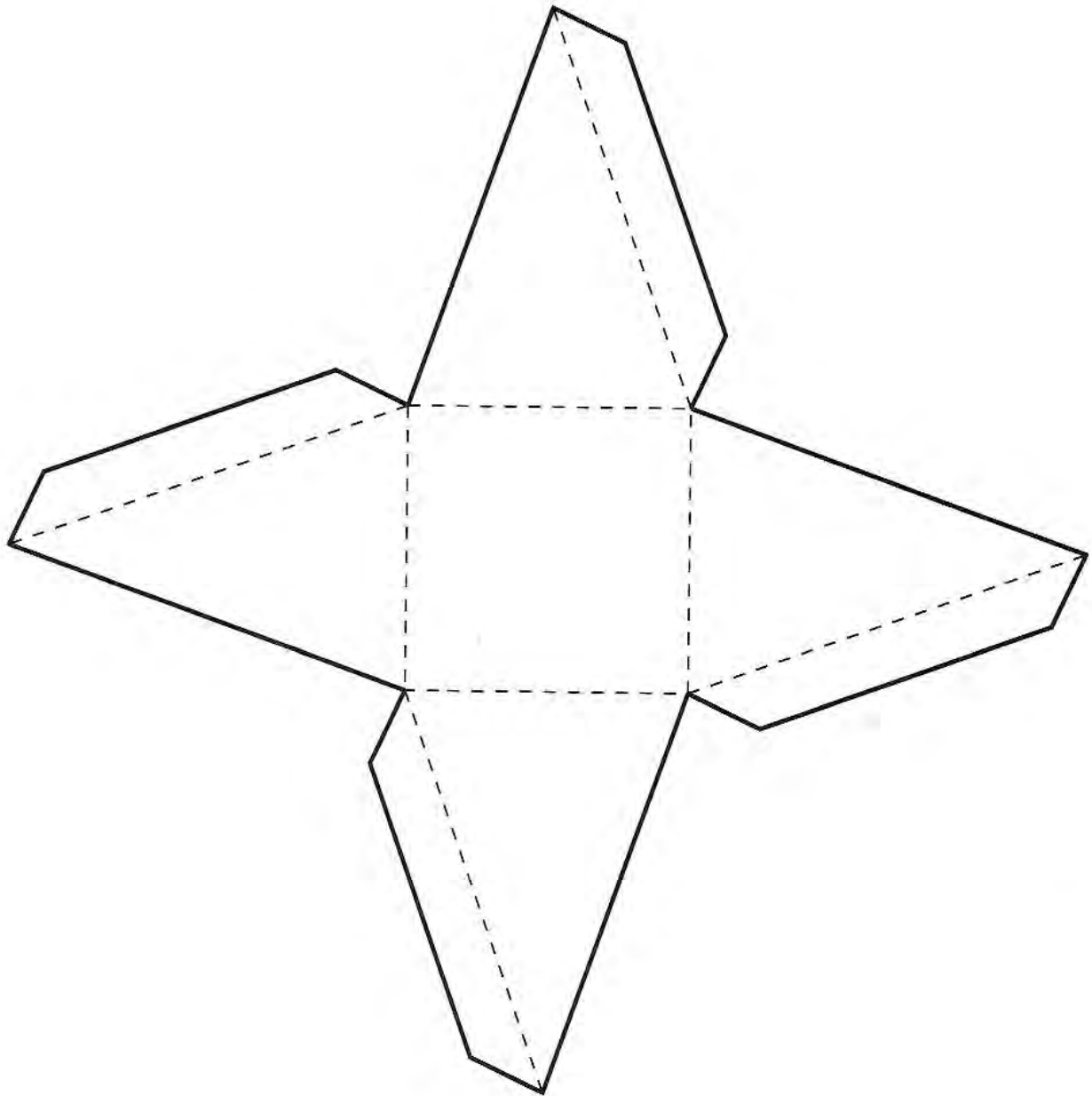
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BLM 9 Sample Net of Rectangle-based Prism



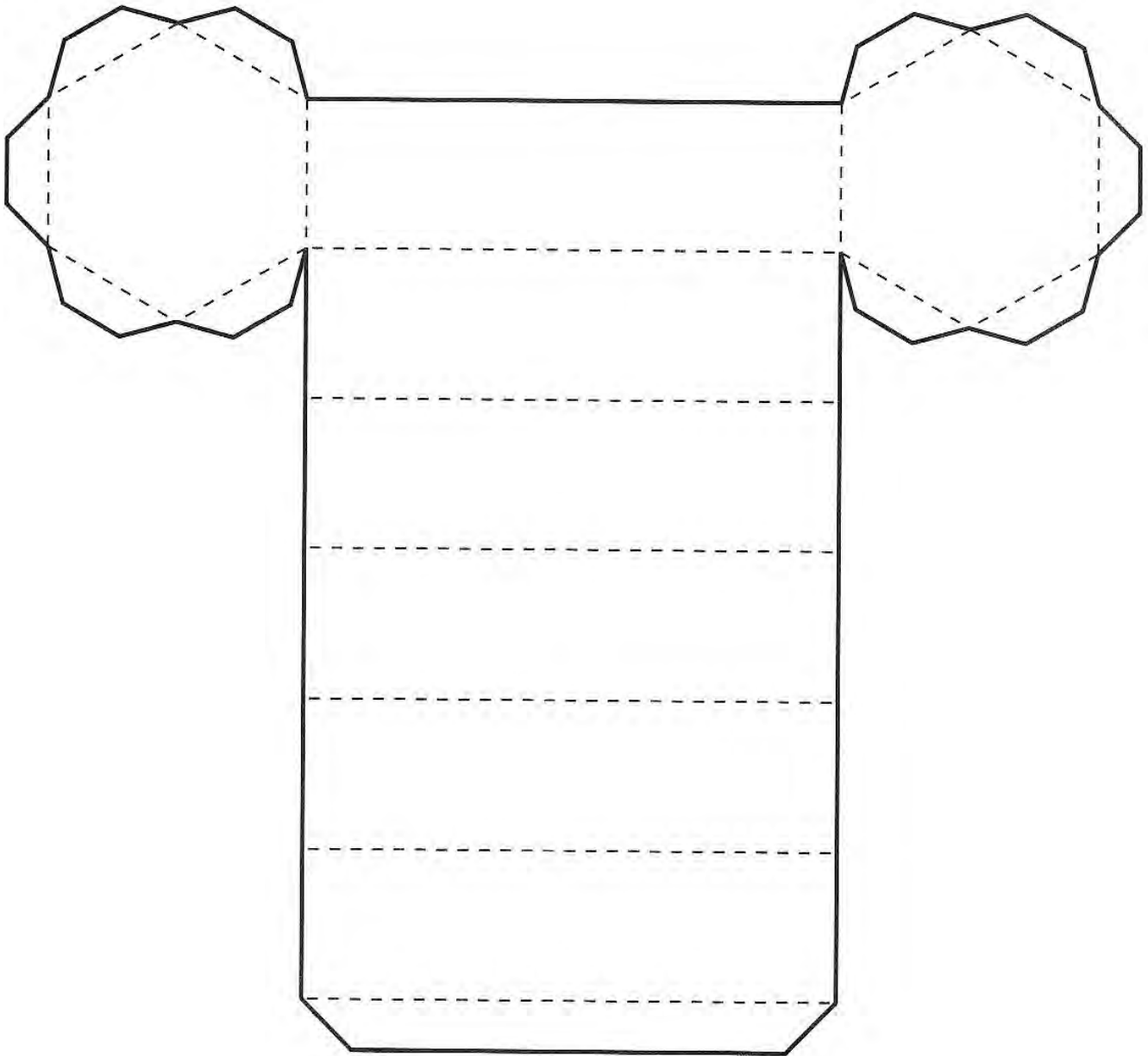
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BLM 10 Sample Net of Square-based Pyramid



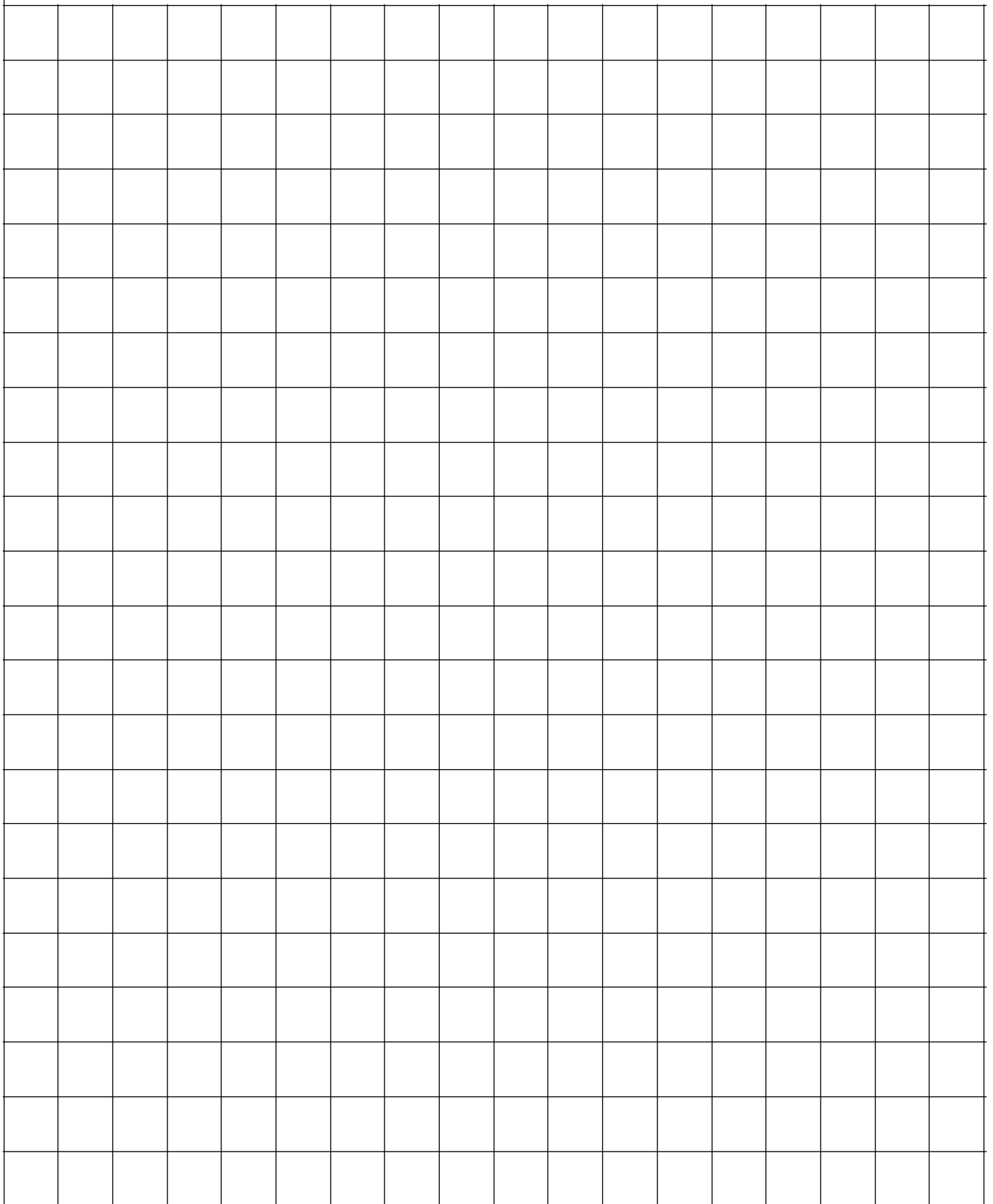
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BLM 11 Sample Net of Regular Hexagon-based Prism



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BLM 12 Grid Paper (1 cm by 1 cm)



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UNIT 3 DECIMAL COMPUTATION

BLM 1 Place Value Charts I

| Tens | Ones | Tenths | Hundredths | Thousandths |
|------|------|--------|------------|-------------|
| | | | | |
| | | | | |
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| Tens | Ones | Tenths | Hundredths | Thousandths |
|------|------|--------|------------|-------------|
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| Tens | Ones | Tenths | Hundredths | Thousandths |
|------|------|--------|------------|-------------|
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| Tens | Ones | Tenths | Hundredths | Thousandths |
|------|------|--------|------------|-------------|
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| Tens | Ones | Tenths | Hundredths | Thousandths |
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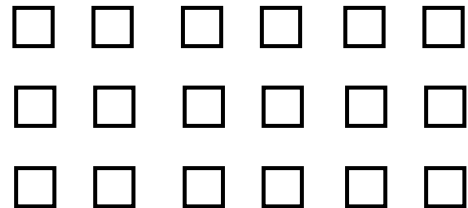
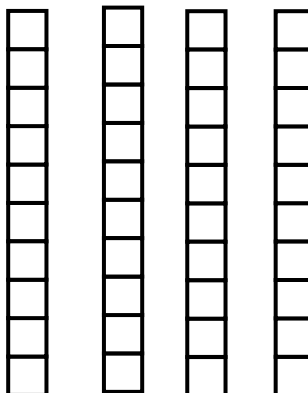
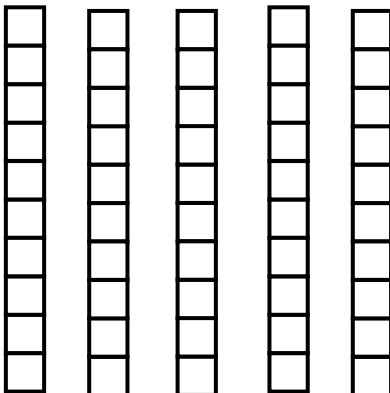
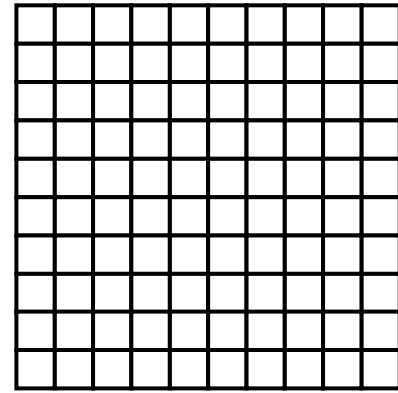
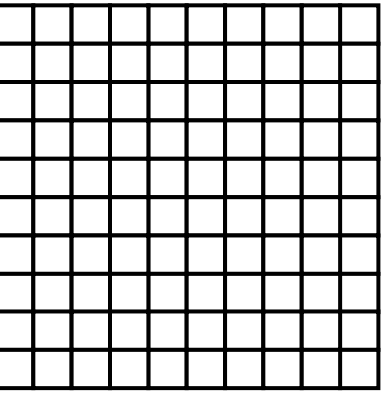
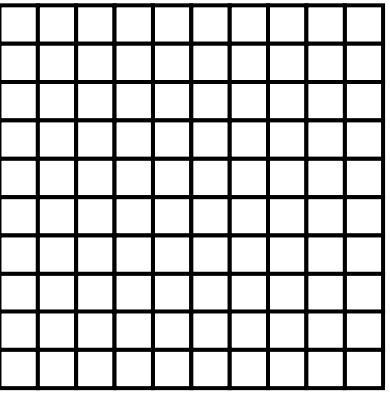
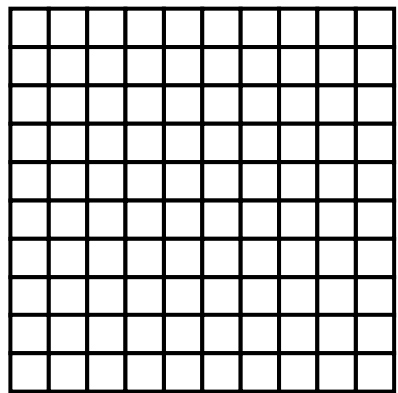
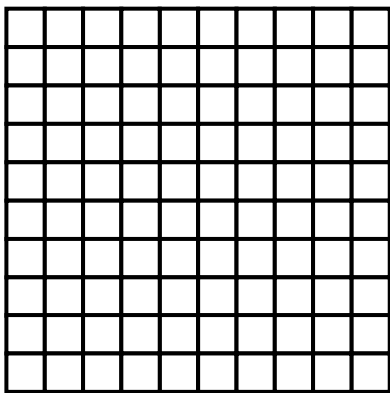
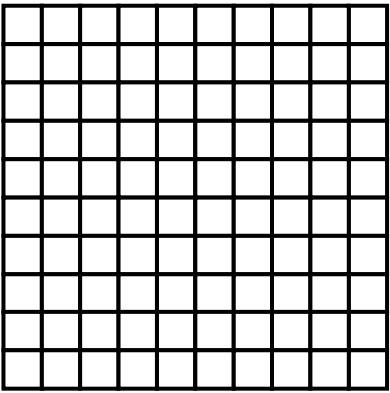
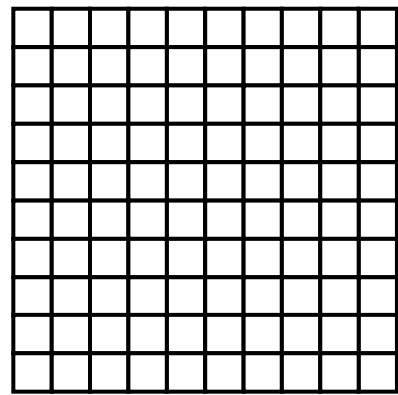
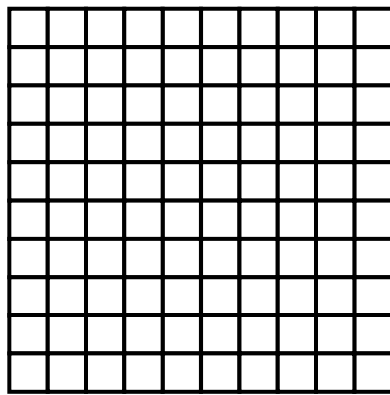
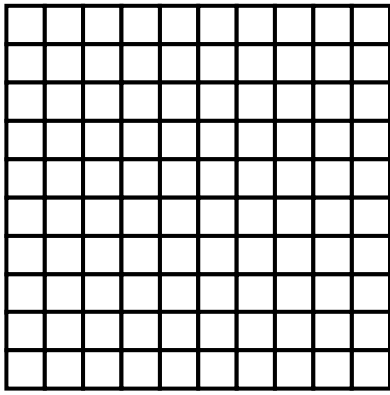
| Tens | Ones | Tenths | Hundredths | Thousandths |
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| Tens | Ones | Tenths | Hundredths | Thousandths |
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| Tens | Ones | Tenths | Hundredths | Thousandths |
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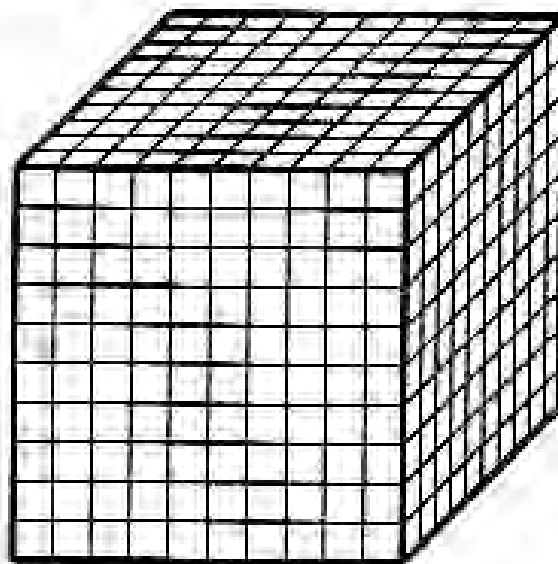
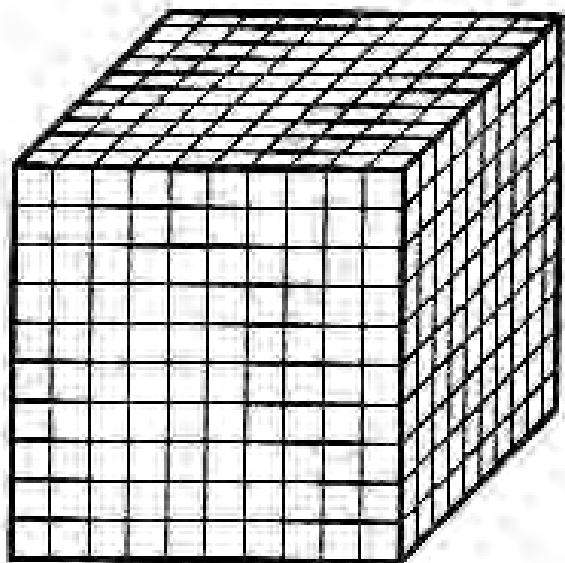
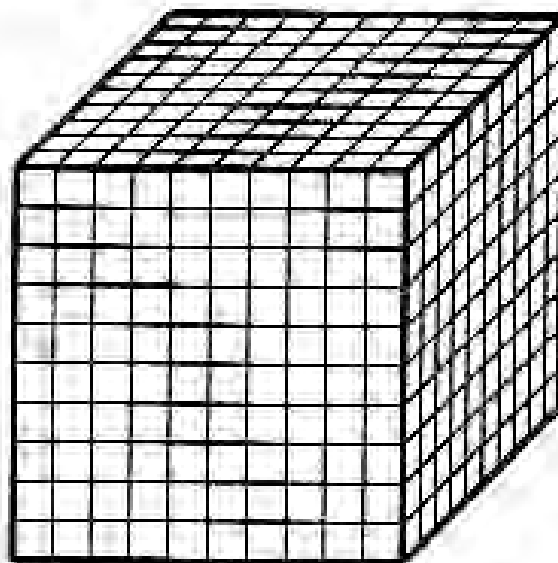
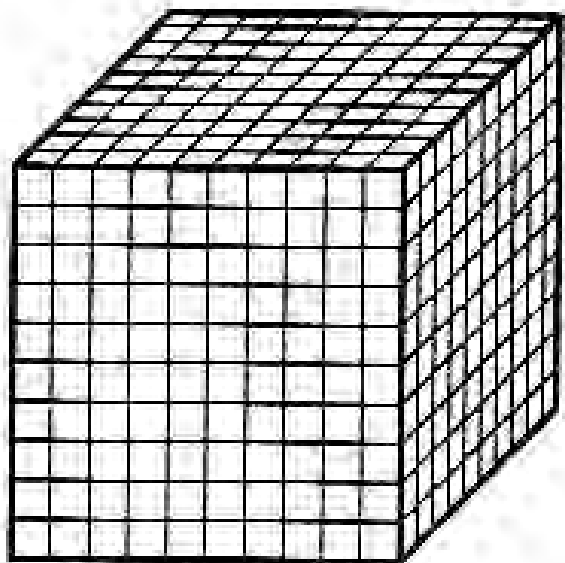
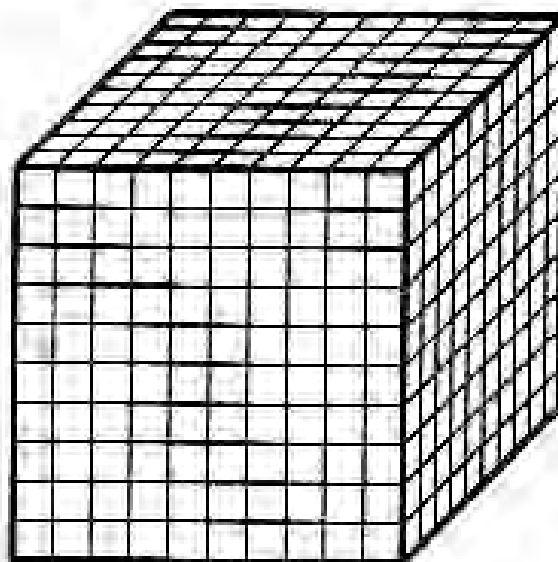
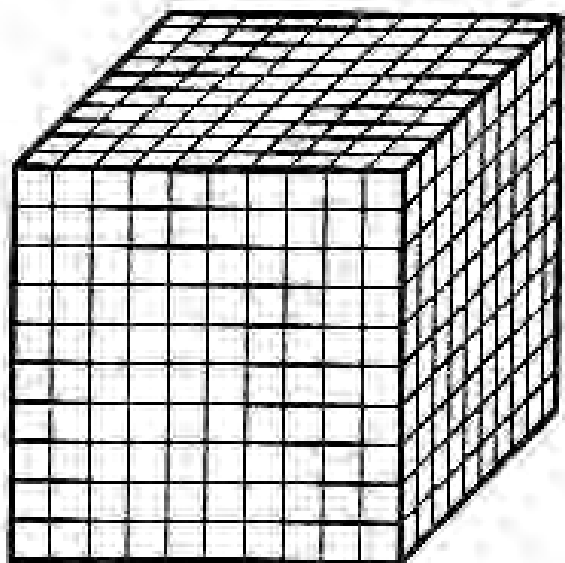
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BLM 2A Base Ten Models (Hundreds, Tens, and Ones)



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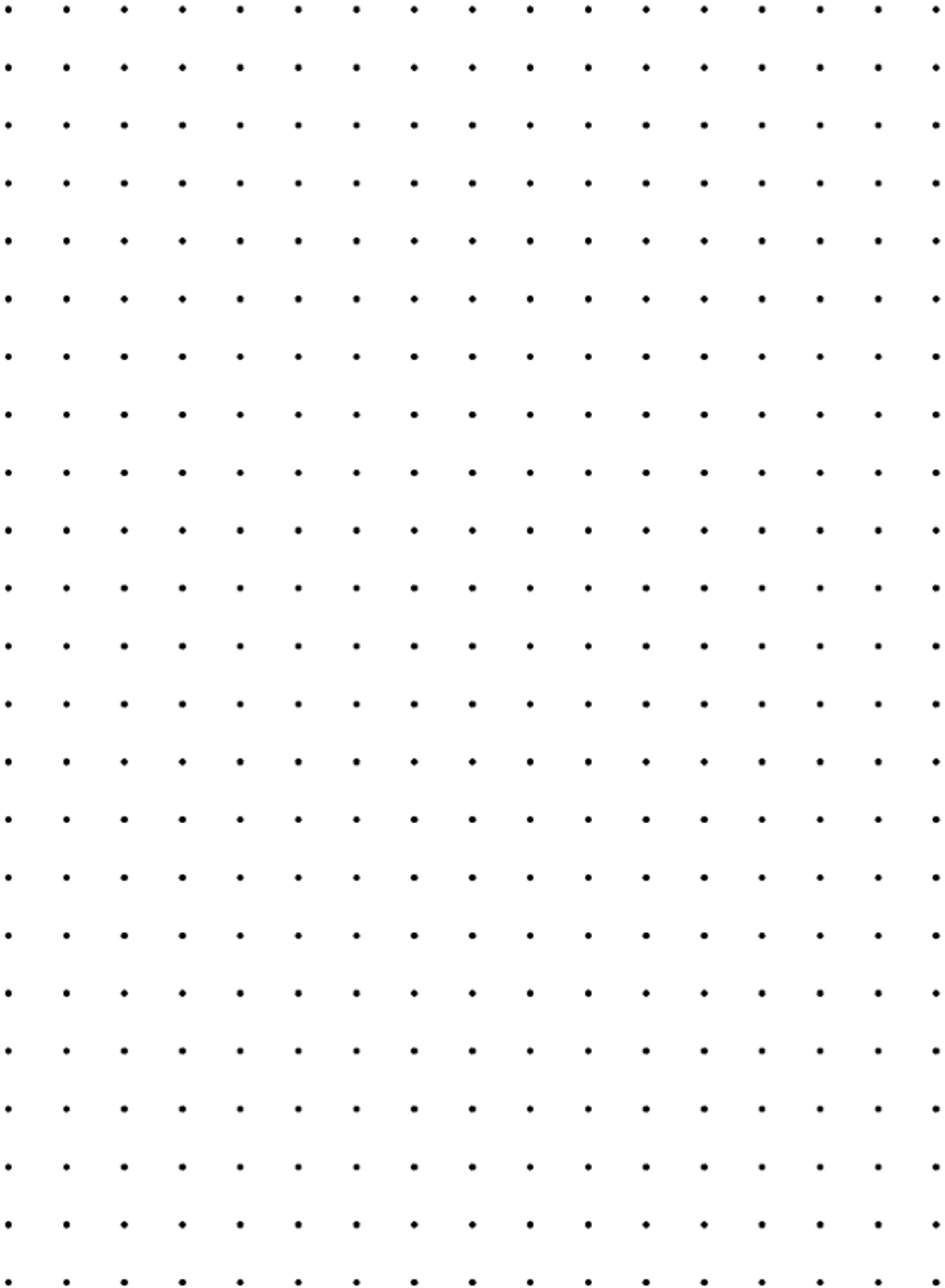
BLM 2B Base Ten Models (Thousands)



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UNIT 4 MEASUREMENT

BLM 1 Square Dot Grid Paper



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UNIT 5 RATIO, RATE, AND PERCENT

BLM 1 Getting Started Squares

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BLM 2 Ratio Match Game Cards

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|---------------|----------------|-------|----------------|---------------|---------------|
| 2 : 4 | 0.75 | 16% | 0.33 | 0.40 | 10% |
| 1 : 10 | 0.23 | 80% | $\frac{2}{5}$ | 2 : 3 | 75% |
| $\frac{4}{6}$ | $\frac{8}{10}$ | 50% | 4 : 6 | 40% | 54% |
| 75 : 100 | 0.54 | 23% | $\frac{4}{5}$ | 0.16 | $\frac{2}{3}$ |
| 0.1 | 33% | 2 : 5 | $\frac{1}{10}$ | $\frac{3}{4}$ | 0.80 |

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UNIT 6 NUMBER RELATIONSHIPS

BLM 1 Place Value Charts II

| Billions | Millions | | | Thousands | | | Ones | | |
|----------|----------|-----|-----|-----------|-----|-----|---------|-----|-----|
| One | Hundred | Ten | One | Hundred | Ten | One | Hundred | Ten | One |
| | | | | | | | | | |
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| Billions | Millions | | | Thousands | | | Ones | | |
|----------|----------|-----|-----|-----------|-----|-----|---------|-----|-----|
| One | Hundred | Ten | One | Hundred | Ten | One | Hundred | Ten | One |
| | | | | | | | | | |
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| Billions | Millions | | | Thousands | | | Ones | | |
|----------|----------|-----|-----|-----------|-----|-----|---------|-----|-----|
| One | Hundred | Ten | One | Hundred | Ten | One | Hundred | Ten | One |
| | | | | | | | | | |
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| Billions | Millions | | | Thousands | | | Ones | | |
|----------|----------|-----|-----|-----------|-----|-----|---------|-----|-----|
| One | Hundred | Ten | One | Hundred | Ten | One | Hundred | Ten | One |
| | | | | | | | | | |
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| Billions | Millions | | | Thousands | | | Ones | | |
|----------|----------|-----|-----|-----------|-----|-----|---------|-----|-----|
| One | Hundred | Ten | One | Hundred | Ten | One | Hundred | Ten | One |
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BLM 2 Place Value Charts III

| Tens | Ones | Tenths | Hundredths | Thousandths | Ten thousandths |
|------|------|--------|------------|-------------|-----------------|
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| Tens | Ones | Tenths | Hundredths | Thousandths | Ten thousandths |
|------|------|--------|------------|-------------|-----------------|
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| Tens | Ones | Tenths | Hundredths | Thousandths | Ten thousandths |
|------|------|--------|------------|-------------|-----------------|
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| Tens | Ones | Tenths | Hundredths | Thousandths | Ten thousandths |
|------|------|--------|------------|-------------|-----------------|
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| Tens | Ones | Tenths | Hundredths | Thousandths | Ten thousandths |
|------|------|--------|------------|-------------|-----------------|
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| | | | | | |

| Tens | Ones | Tenths | Hundredths | Thousandths | Ten thousandths |
|------|------|--------|------------|-------------|-----------------|
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BLM 3 100 Charts

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

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

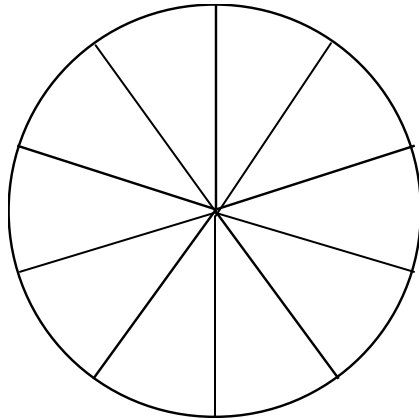
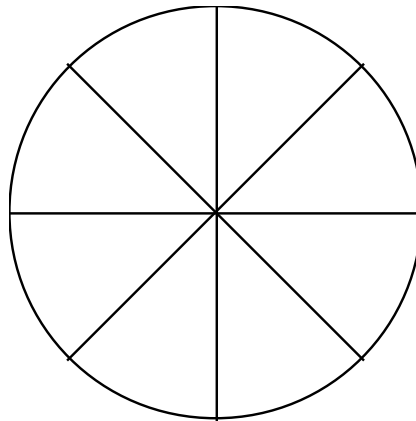
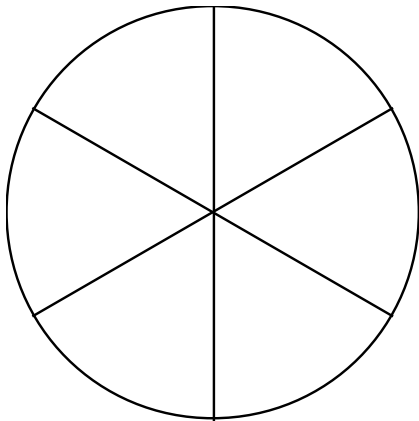
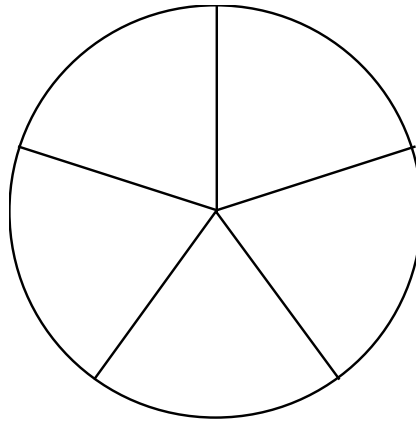
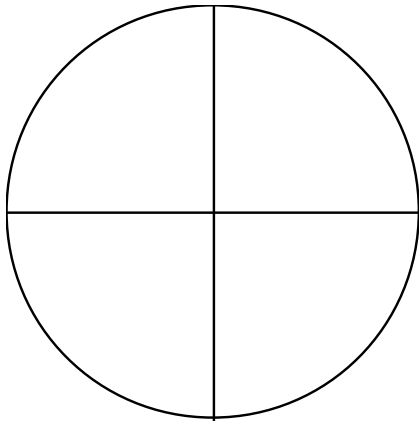
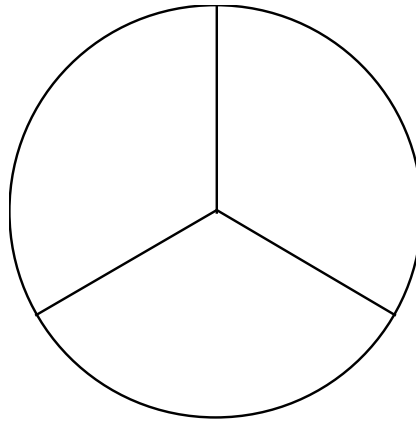
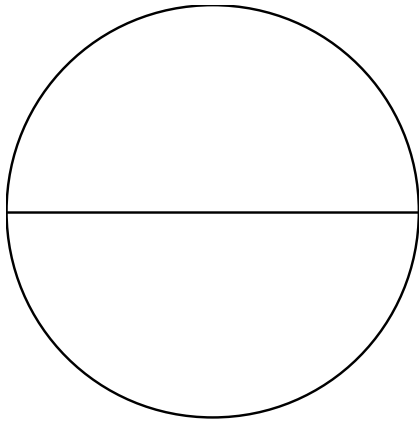
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|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 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 |

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

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UNIT 7 DATA AND PROBABILITY

BLM 1 Fraction Circles for Spinners



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