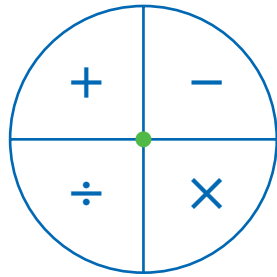
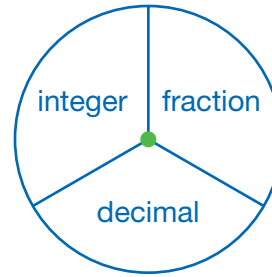


Math Tool: Rational Numbers Game

Operations Spinner



Number Type Spinner



Integer Strips

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

Fraction Strips

$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{2}{3}$	$\frac{3}{4}$
$\frac{1}{12}$	$\frac{1}{8}$	$\frac{1}{10}$	$\frac{1}{5}$	$\frac{2}{5}$

Decimal Strips

0.1	0.2	0.3	0.4	0.5
0.01	0.05	1.5	2.5	3.5

Chart

=	Addition +	Subtraction -	Multiplication ×	Division ÷
Integers				
Fractions				
Decimals				

Math Tool: Number Properties and Rules

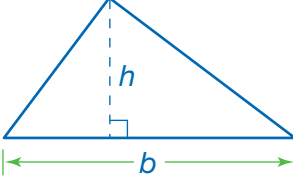


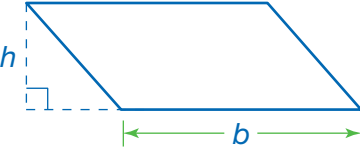
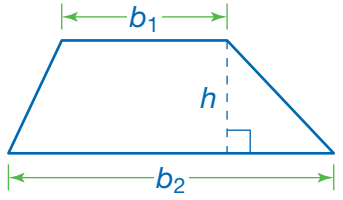
Addition Properties	Multiplication Properties
Associative Property of Addition $(a + b) + c = a + (b + c)$	Associative Property of Multiplication $(a \times b) \times c = a \times (b \times c)$
Commutative Property of Addition $a + b = b + a$	Commutative Property of Multiplication $a \times b = b \times a$
Additive Identity Property of 0 $a + 0 = a$	Multiplicative Identity Property of 1 $a \times 1 = a$
Sum of Additive Inverses $a + (-a) = 0$	Product of Multiplicative Inverses $a \times \frac{1}{a} = 1$

Addition and Multiplication
Distributive Property of Multiplication over Addition $a \times (b + c) = (a \times b) + (a \times c)$
Distributive Property of Multiplication over Subtraction $a \times (b - c) = (a \times b) - (a \times c)$

Properties of Equality	
Addition Property of Equality If $a = b$, then $a + c = b + c$.	Multiplication Property of Equality If $a = b$, then $a \times c = b \times c$.
Subtraction Property of Equality If $a = b$, then $a - c = b - c$.	Division Property of Equality If $a = b$, and $c \neq 0$, then $a \div c = b \div c$.

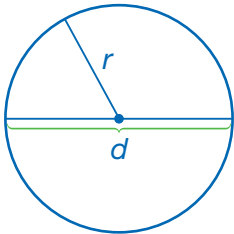
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Math Tool: Area Formulas (Polygons)

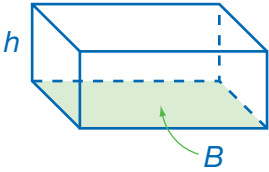
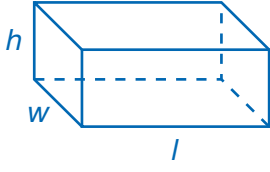
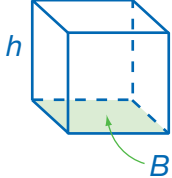
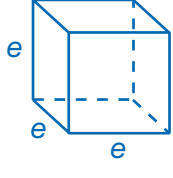
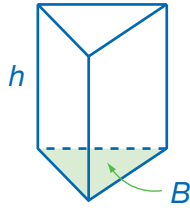
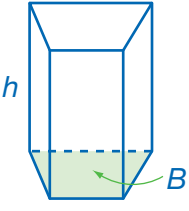
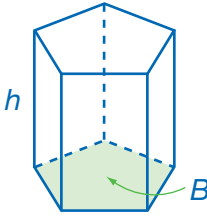
Formulas for Area, A	
<p>Triangle</p>  <p>$A = \frac{1}{2}bh,$</p> <p>where b stands for the length of the base and h stands for the height</p>	
<p>Rectangle</p>  <p>$A = lw,$</p> <p>where l stands for the length and w stands for the width</p>	<p>Square</p>  <p>$A = s^2,$</p> <p>where s stands for the length of a side</p>
<p>Parallelogram</p>  <p>$A = bh,$</p> <p>where b stands for the length of the base and h stands for the height</p>	<p>Trapezoid</p>  <p>$A = \frac{1}{2}(b_1 + b_2)h,$</p> <p>where b_1 and b_2 stand for the lengths of the bases and h stands for the height</p>

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Math Tool: Circumference and Area Formulas (Circles)

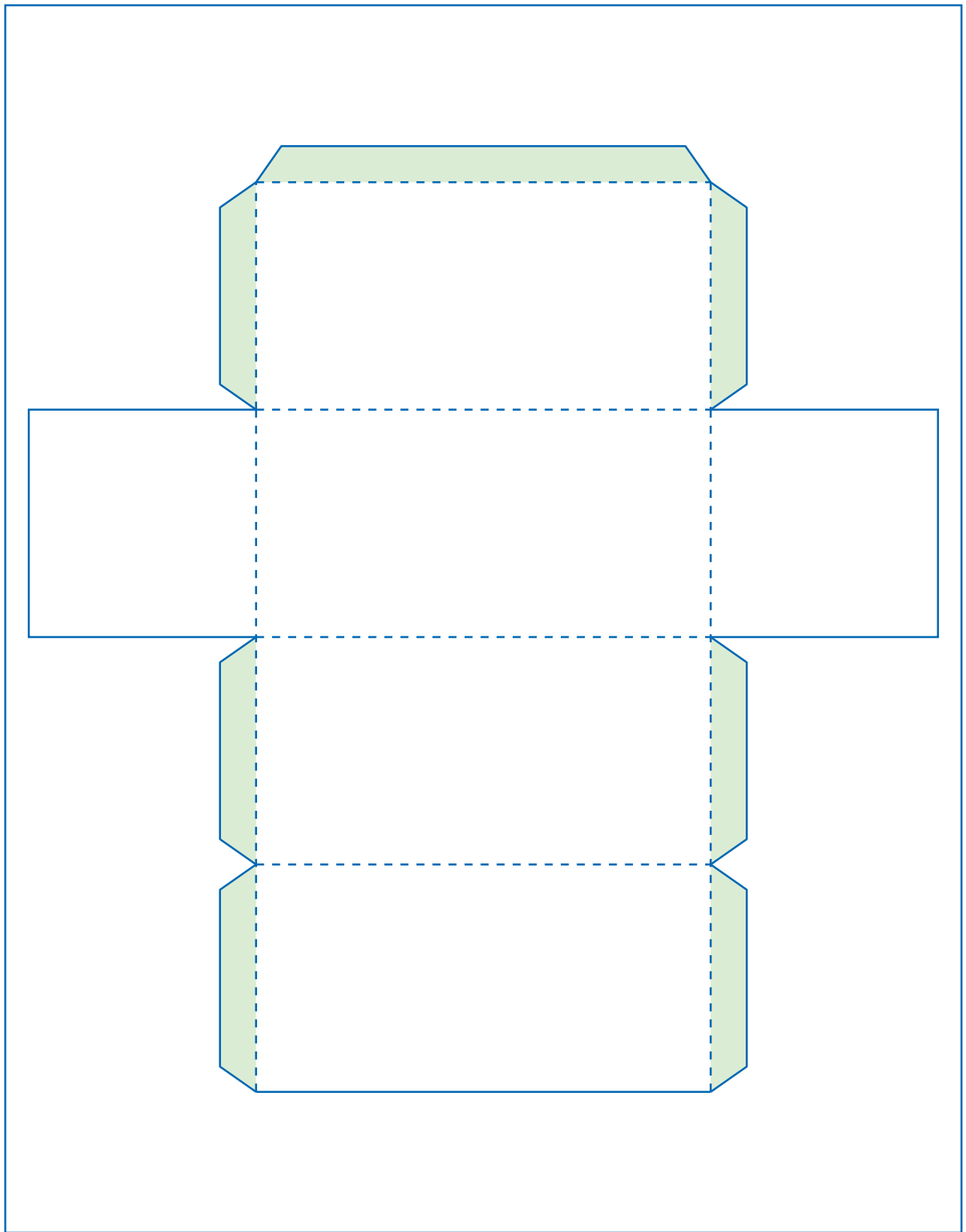
Circle Formulas
<p style="text-align: center;">Circle</p>  <p>A diagram of a circle with a center point. A radius line is drawn from the center to the top edge, labeled 'r'. A horizontal diameter line is drawn through the center, labeled 'd'.</p>
<p style="text-align: center;">Circumference, C</p> <p style="text-align: center;">$C = 2\pi r$, where r stands for the radius</p> <p style="text-align: center;">$C = \pi d$, where d stands for the diameter</p>
<p style="text-align: center;">Area, A</p> <p style="text-align: center;">$A = \pi r^2$, where r stands for the radius</p>
<p style="text-align: center;">Pi</p> <p style="text-align: center;">Pi, or π, can be approximated as 3.14 or $\frac{22}{7}$.</p> <p style="text-align: center;">However, it is not equal to those values. It is a decimal with digits that never end and never repeat: 3.14159265...</p>

Math Tool: Volume Formulas

Formulas for Volume, V		
<p>Volume of a Prism</p> $V = Bh,$ <p>where B is the area of the base of the prism and h is the height of the prism</p>		
<p>Rectangular Prism</p>		
 <p>$V = Bh$</p>	 <p>$V = lwh,$</p> <p>where l is the length, w is the width, and h is the height</p>	
<p>Cube</p>		
 <p>$V = Bh$</p>	 <p>$V = e^3,$</p> <p>where e is the length of an edge</p>	
<p>Triangular Prism</p>  <p>$V = Bh$</p>	<p>Trapezoidal Prism</p>  <p>$V = Bh$</p>	<p>Pentagonal Prism</p>  <p>$V = Bh$</p>

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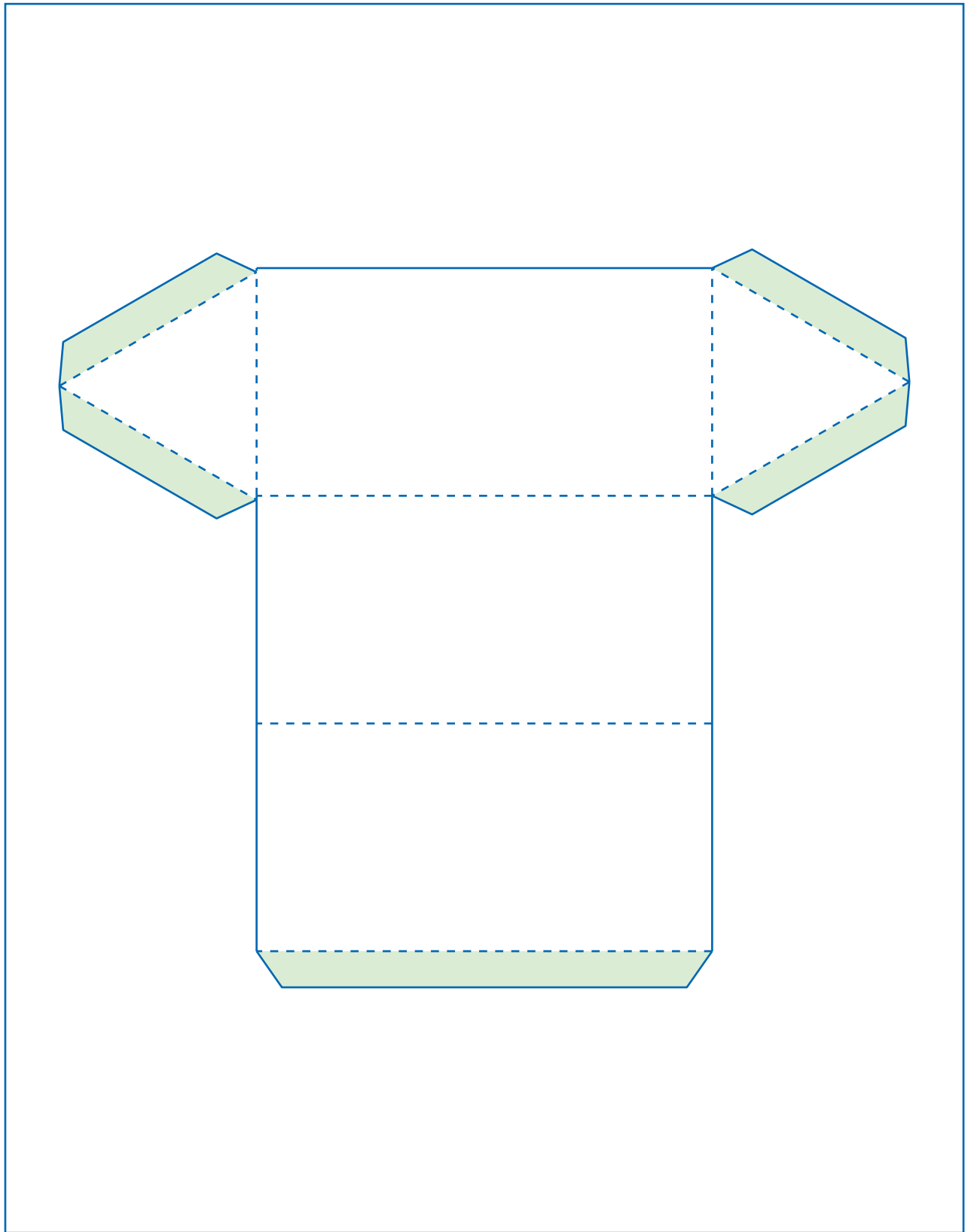
Math Tool: Net of Rectangular Prism



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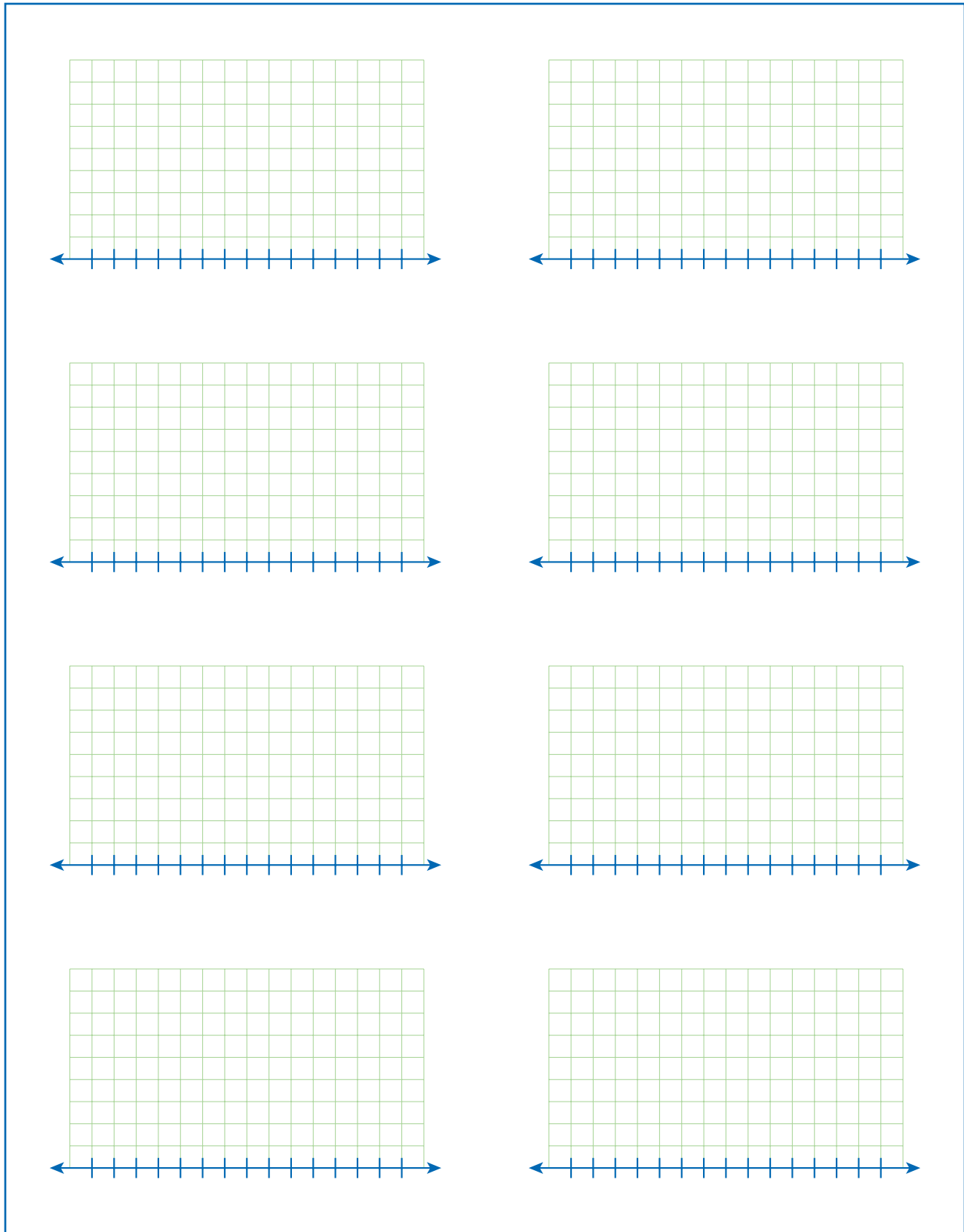
Math Tools

Math Tool: Net of Triangular Prism



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Math Tool: Number Lines on Grids



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Math Tools

Math Tool: Random Digits Table

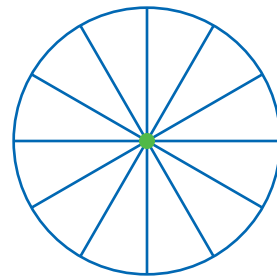
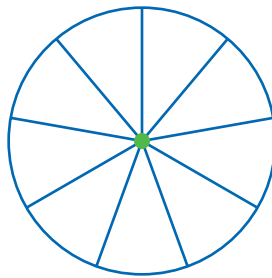
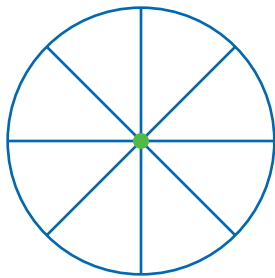
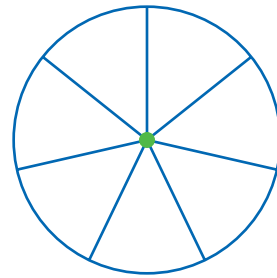
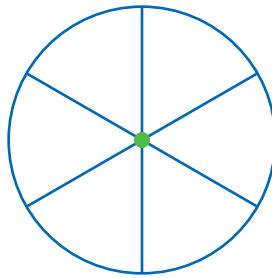
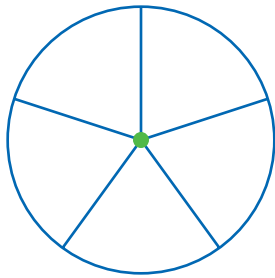
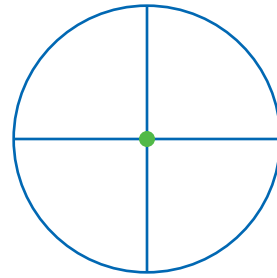
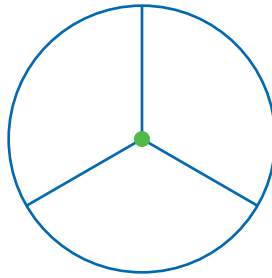
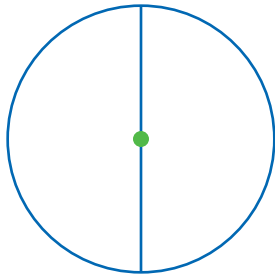
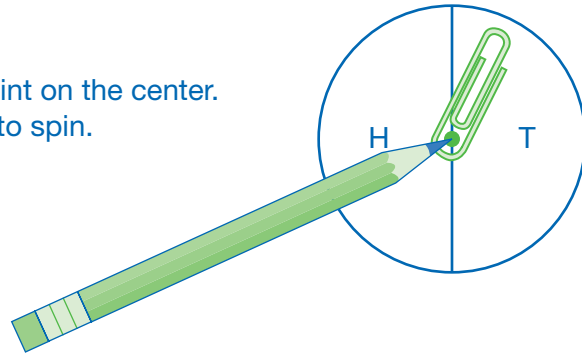
hg	Column A	Column B	Column C	Column D	Column E
Row 1	91037	01830	73685	14234	95784
Row 2	84668	77637	41367	23475	34210
Row 3	56950	64445	28573	08664	29604
Row 4	67392	97474	65078	59275	93318
Row 5	06807	77506	39982	67637	68692
Row 6	29604	86954	53998	20199	31988
Row 7	65078	42224	75730	69243	30378
Row 8	41855	97315	63915	27583	65907
Row 9	03289	30523	48623	94711	24911
Row 10	65228	81507	27341	37878	77825
Row 11	83015	06319	17822	96544	56959
Row 12	91119	33927	52551	85700	01759
Row 13	22360	86438	46415	89716	63517
Row 14	82415	62248	88109	53840	32896
Row 15	69853	57770	21895	31339	17840
Row 16	43071	04293	28209	12917	57452
Row 17	28723	91258	50682	78228	33640
Row 18	36734	55627	71635	36368	14382
Row 19	37878	69390	16093	43120	33900
Row 20	73360	09614	59553	23694	06646
Row 21	14577	42997	66483	39475	98730
Row 22	35124	26576	07627	50604	32544
Row 23	76413	90615	71272	24304	08904
Row 24	31649	48910	27354	84734	05383
Row 25	99054	32704	64569	57109	78553

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Math Tool: Spinners

Directions:

- Label the spinner.
- Place a paper clip and pencil point on the center.
- Flick paper clip with your finger to spin.



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Math Tools