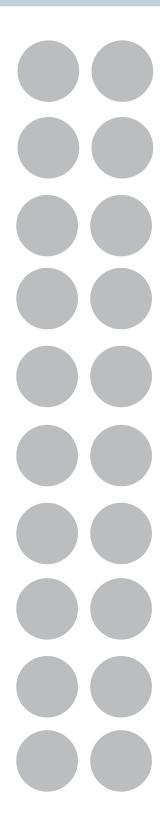


threes array



Lesson 2: Date:

Relate multiplication to the array model. 5/23/14



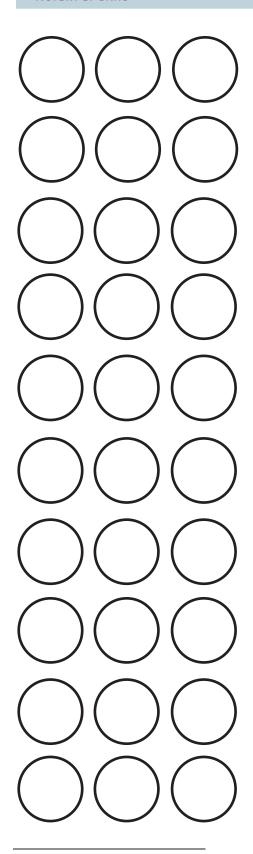
twos array



Lesson 7:

Date:

Demonstrate the commutativity of multiplication, and practice related facts by skip counting objects in array models 5/23/14



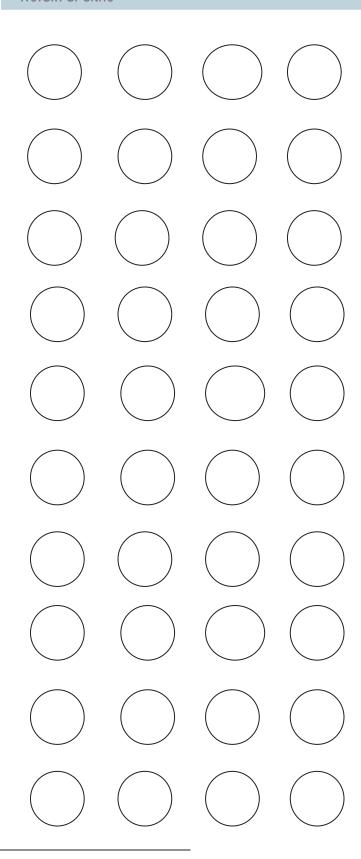
threes array no fill



Lesson 9:

Date:

Find related multiplication facts by adding and subtracting equal groups in array models 5/23/14 3



fours array



Lesson 14:

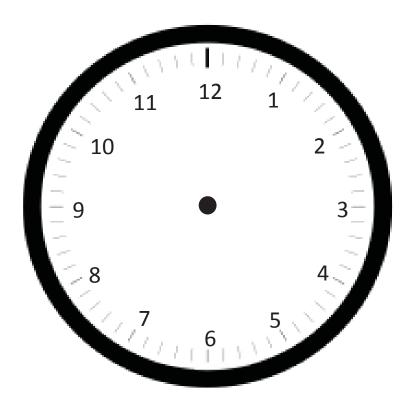
Date:

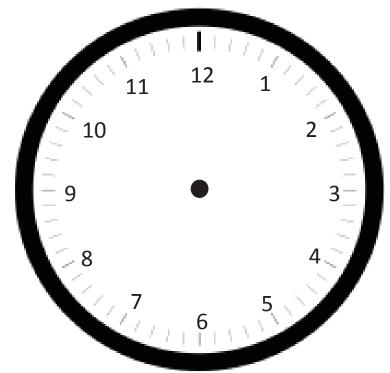
Skip-count objects in models to build fluency with multiplication facts using units of 4 5/23/14

4

tape diagram



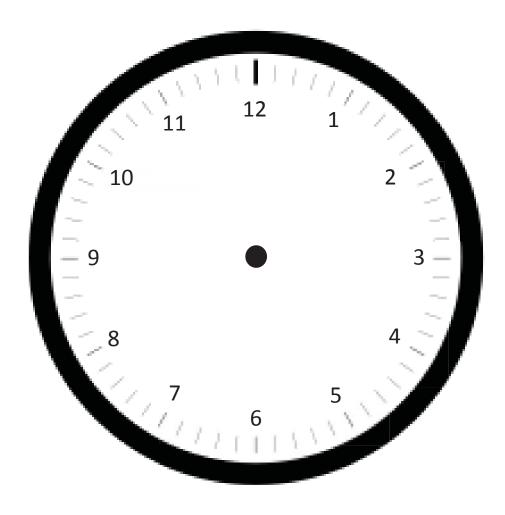




two clocks



Lesson 2:



clock



Lesson 3:



number line



unlabeled place value chart



Lesson 14:

Round to the nearest hundred on the vertical number line.

Date _____

Solve the following pairs of problems. Circle the pairs where both problems have the same answer.

b.
$$(7+6)+4$$

5. a.
$$(3+2) \times 5$$

b.
$$3 + (2 \times 5)$$

2. a.
$$(3 \times 2) \times 4$$

b.
$$3 \times (2 \times 4)$$

6. a.
$$(8 \div 2) \times 2$$

b.
$$8 \div (2 \times 2)$$

3. a.
$$(2 \times 1) \times 5$$

b.
$$2 \times (1 \times 5)$$

7.
$$a. (9-5) + 3$$

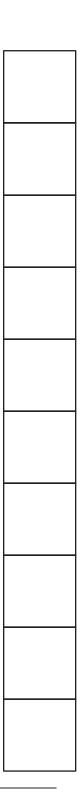
b.
$$9 - (5 + 3)$$

4. a.
$$(4 \times 2) \times 2$$

b.
$$4 \times (2 \times 2)$$

8. a.
$$(8 \times 5) - 4$$

b.
$$8 \times (5 - 4)$$



tape diagram



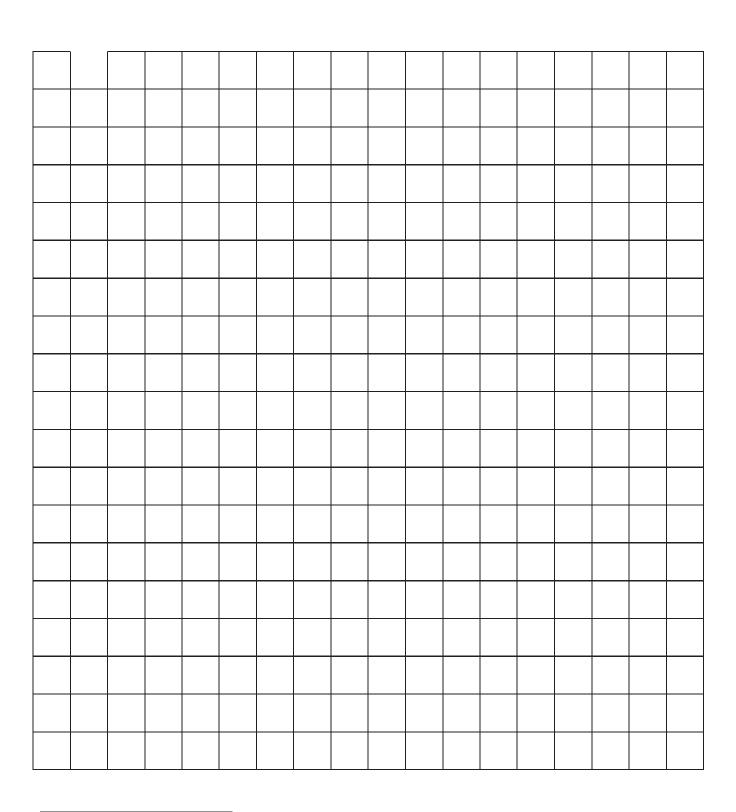
Lesson 12:

Apply the distributive property and the fact 9 = 10 - 1 as a strategy to multiply.

53

30 × 6 =	9 × 60 =	40 × 2 =	10 × 6 =
70 × 3 =	50 × 6 =	80 × 9 =	20 × 5 =
8 × 30 =	3 × 30 =	5 × 50 =	4 × 40 =
6 × 80 =	70 × 7 =	20 × 7 =	10 × 7 =
90 × 7 =	2 × 60 =	50 × 7 =	80 × 5 =
60 × 6 =	9 × 50 =	30 × 9 =	4 × 80 =

multiples of 10 multiplication cards



cen	tim	eter	grid
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Lesson 3:

Model tiling with centimeter and inch unit squares as a strategy to measure area.

•	•		•

inch	grid
IIICII	griu



		•

array 1



array 2



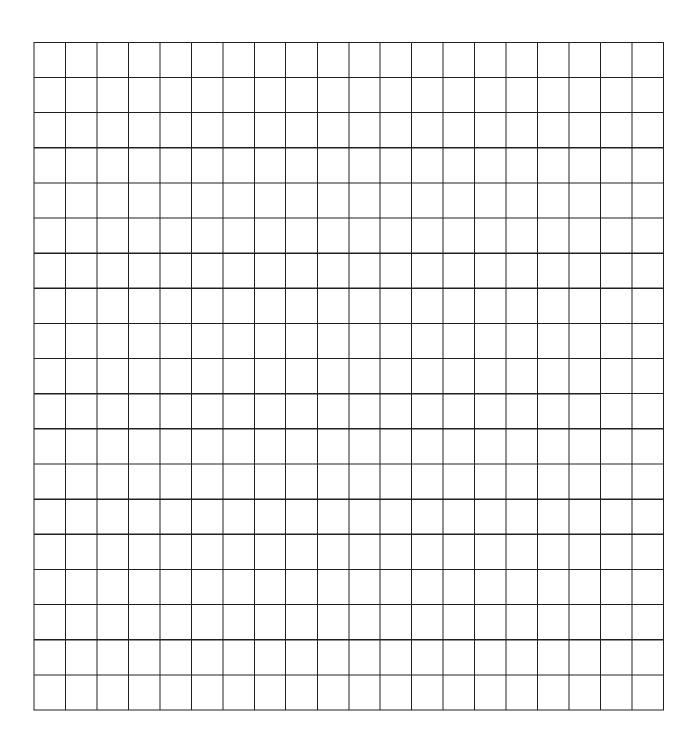
Lesson 6:

area mo	odel
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Lesson 7:

Interpret area models to form rectangular arrays.

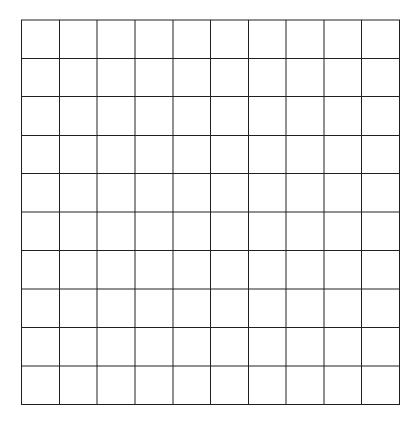


grid



Lesson 8:

Find the area of a rectangle through multiplication of the side lengths.



small centimeter grid



Lesson 9:

Analyze different rectangles and reason about their area.

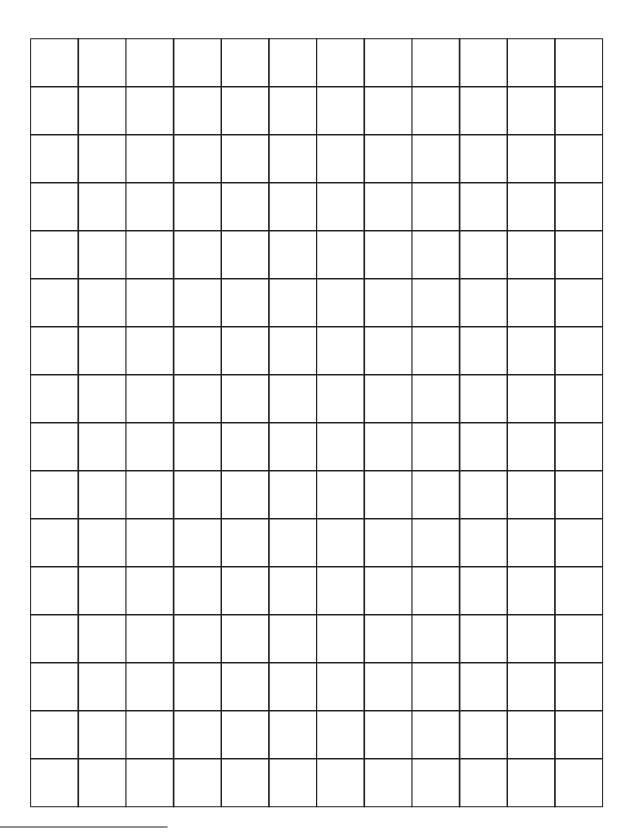


tiling



Lesson 10:

20

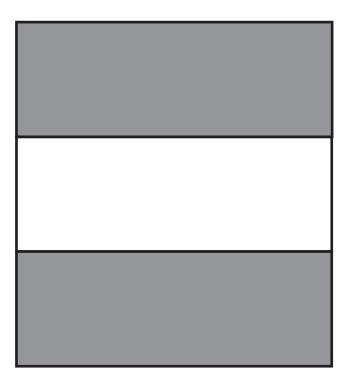


large grid



Lesson 13:

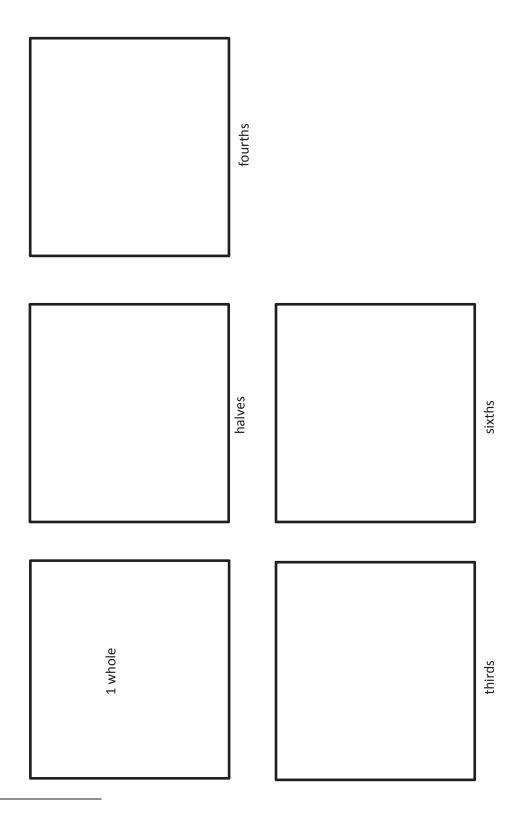
Find areas by decomposing into rectangles or completing composite figures to form rectangles.



thirds



Lesson 20:

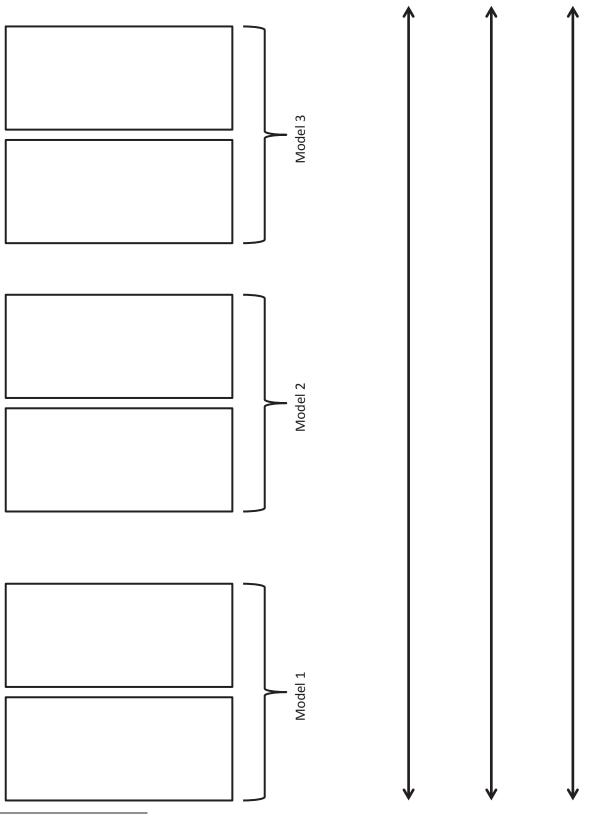


fraction pieces



Lesson 24:

Express whole numbers as fractions and recognize equivalence with different units.



6 wholes

Number of Children in Third-Grade Families

	X		
X	X		
X	X		
X	X	X	
X	X	X	
X	X	X	
X	X	X	
X	X	X	X
X	X	Х	X
1	2	3	4

Number of Children

X = 1 *Child*

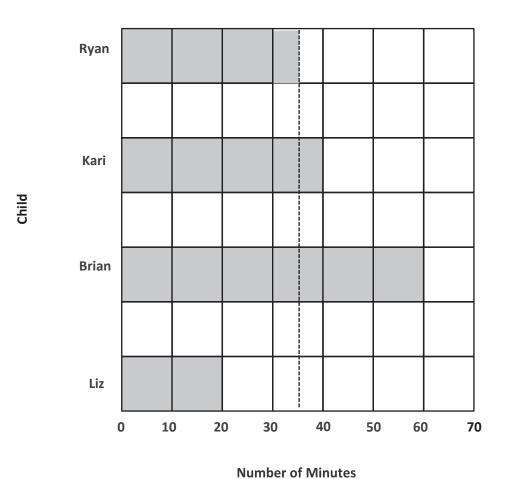
line plot



Lesson 4:

Solve one- and two-step problems involving graphs.

Number of Minutes Spent Practicing Piano



bar graph



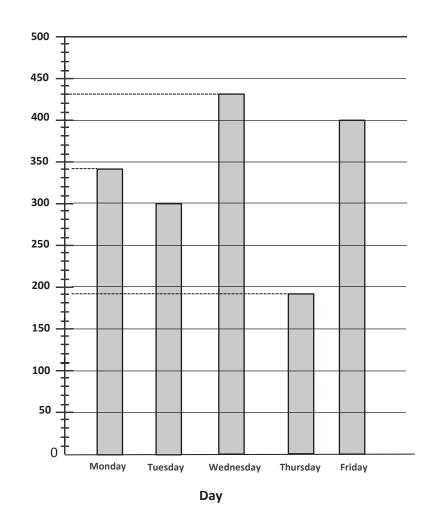
Lesson 4:

Solve one- and two-step problems involving graphs.

Number of

Miles

Number of Miles a Truck Driver Drives



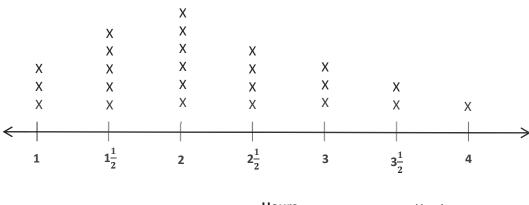
number of miles bar graph



Lesson 6:

Interpret measurement data from various line plots.

Time Spent Outside Over the Weekend



Hours

X = 1 person

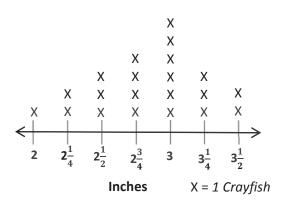
time spent outside line plot

Lesson 6:

Interpret measurement data from various line plots.



Crayfish Lengths from Mr. Nye's Class



bar graph and line plot

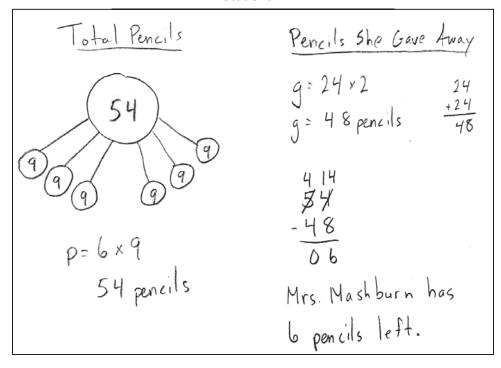


Lesson 9:

Analyze data to problem solve.

Student A

Student B



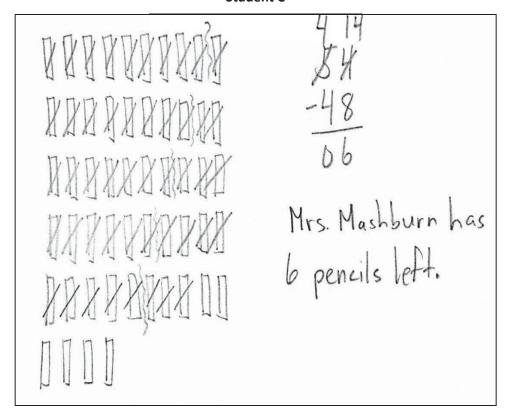
student work samples



Lesson 3:

Share and critique peer solution strategies to varied word problems.

Student C

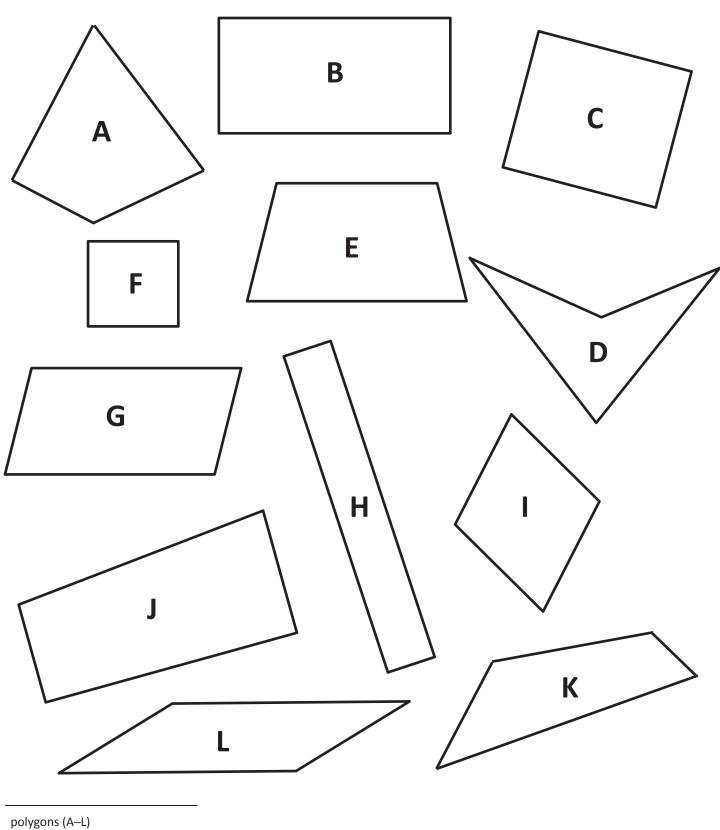


student work samples



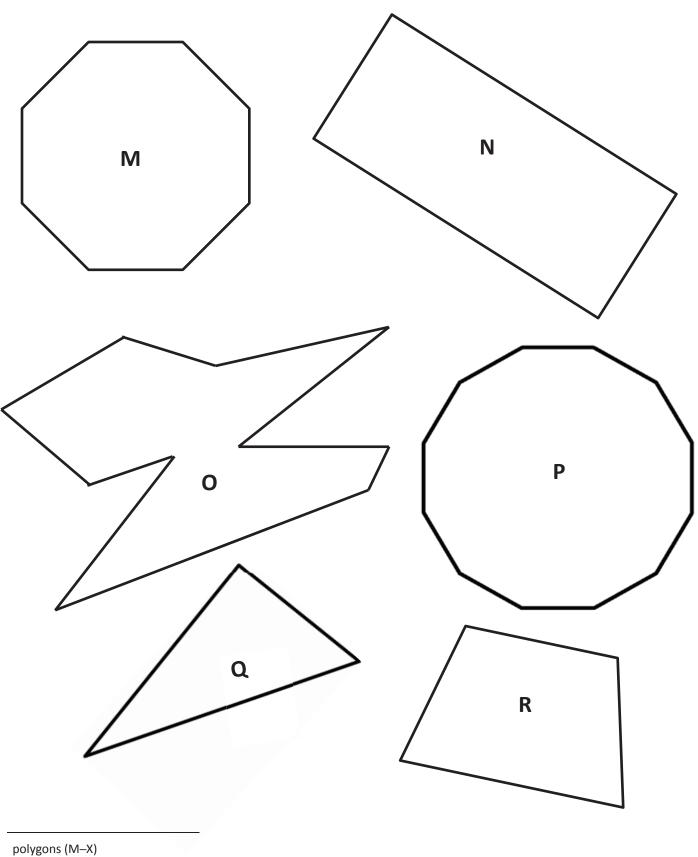
Lesson 3:

Share and critique peer solution strategies to varied word problems.



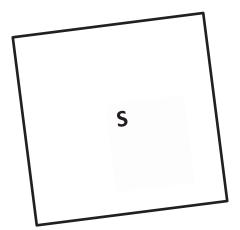
Lesson 4:

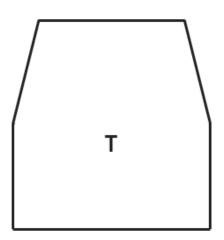
Compare and classify quadrilaterals.

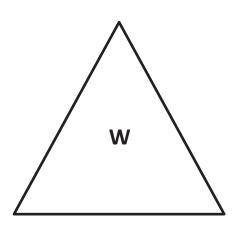


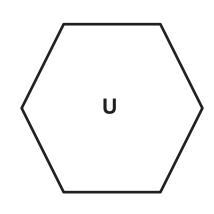
Lesson 5:

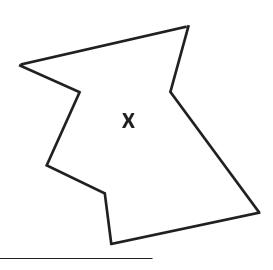
Compare and classify other polygons.

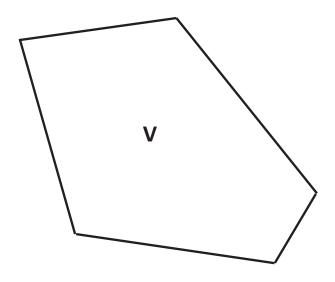








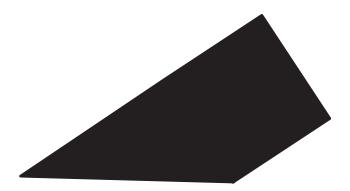




polygons (M-X)

Lesson 5:

Compare and classify other polygons.



polygon



Lesson 6:

Draw polygons with specified attributes to solve problems.

has at least 1 angle greater than a right angle	is a quadrilateral	has all equal sides (label side lengths)
has at least 1 angle less than a right angle	is a trapezoid	has at least 2 equal sides (label side lengths)
has at least 1 right angle	is a hexagon	has at least 1 set of parallel sides
has more than 4 angles	is a parallelogram	has no parallel sides

game cards



Lesson 6:

Draw polygons with specified attributes to solve problems.

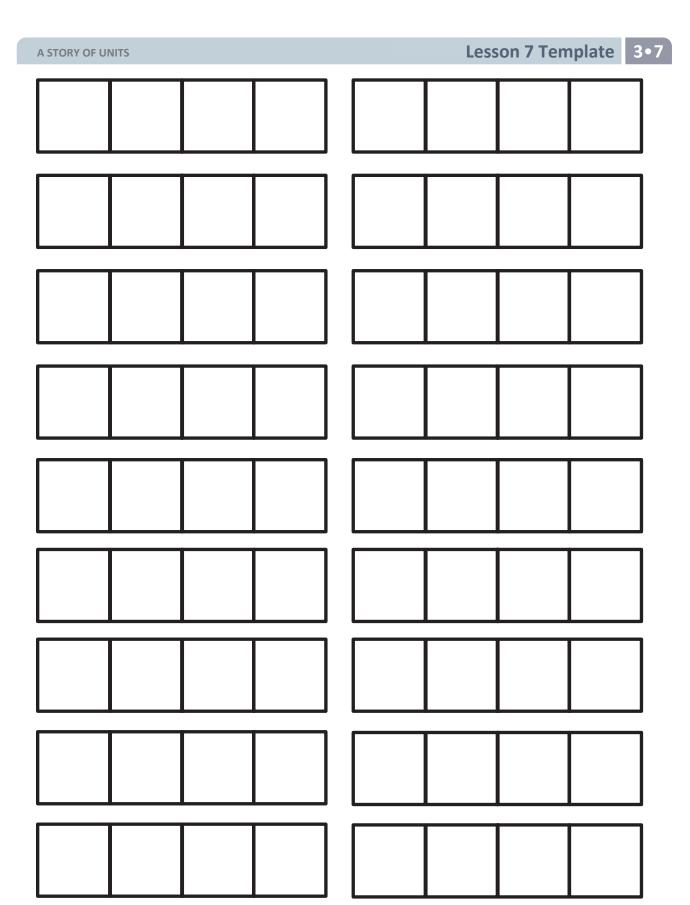
A	В	C
A	В	С
A	В	C
A	В	C

g٦	me	car	ds
ga	IIIC	Cai	us



Lesson 6:

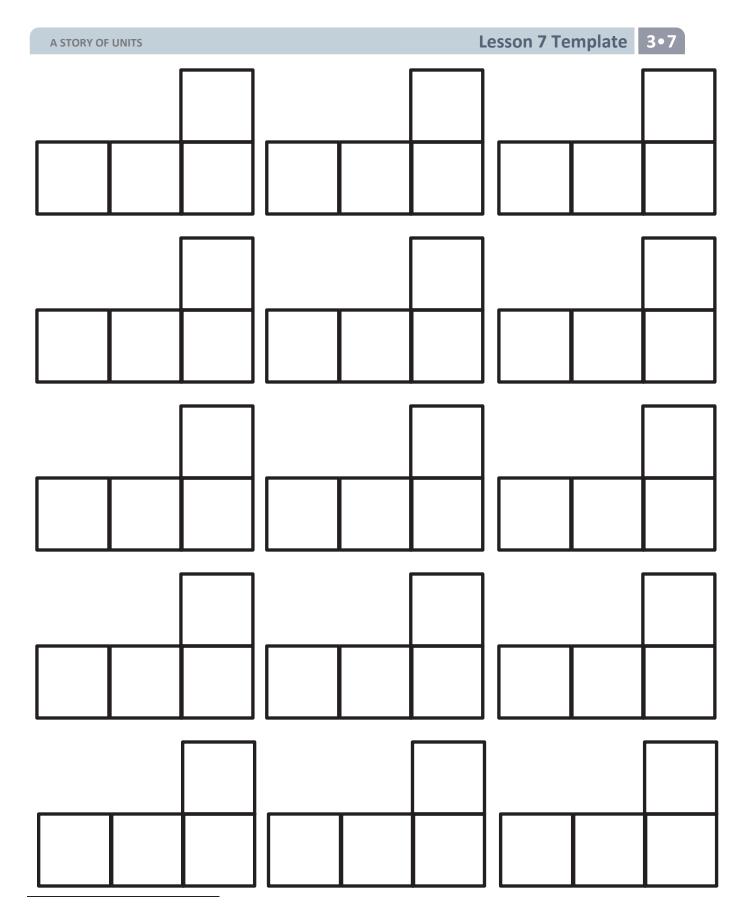
Draw polygons with specified attributes to solve problems.





Lesson 7:

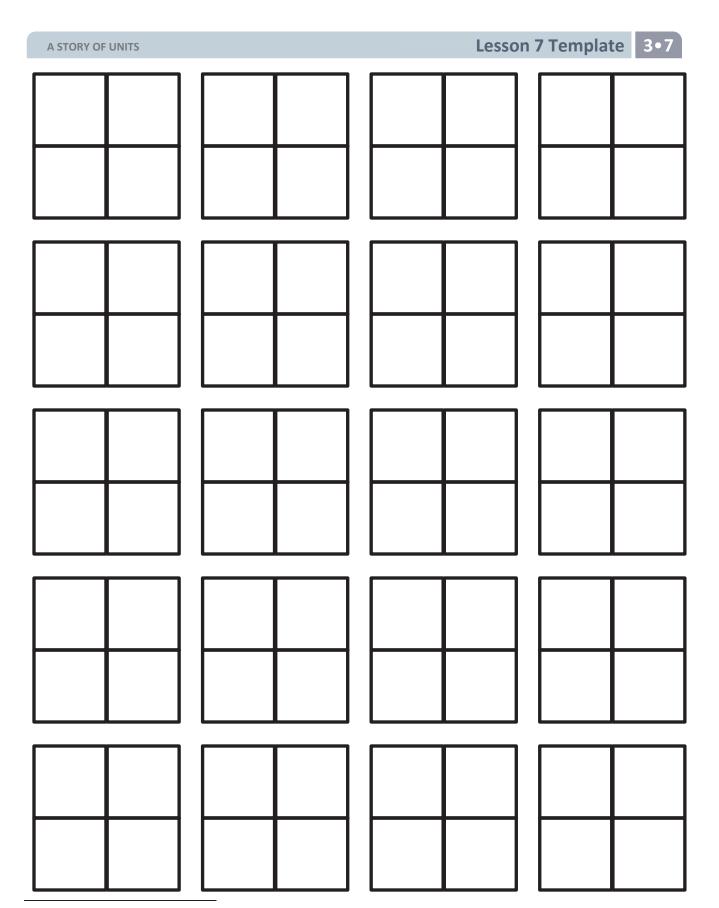
Reason about composing and decomposing polygons using tetrominoes.





Lesson 7:

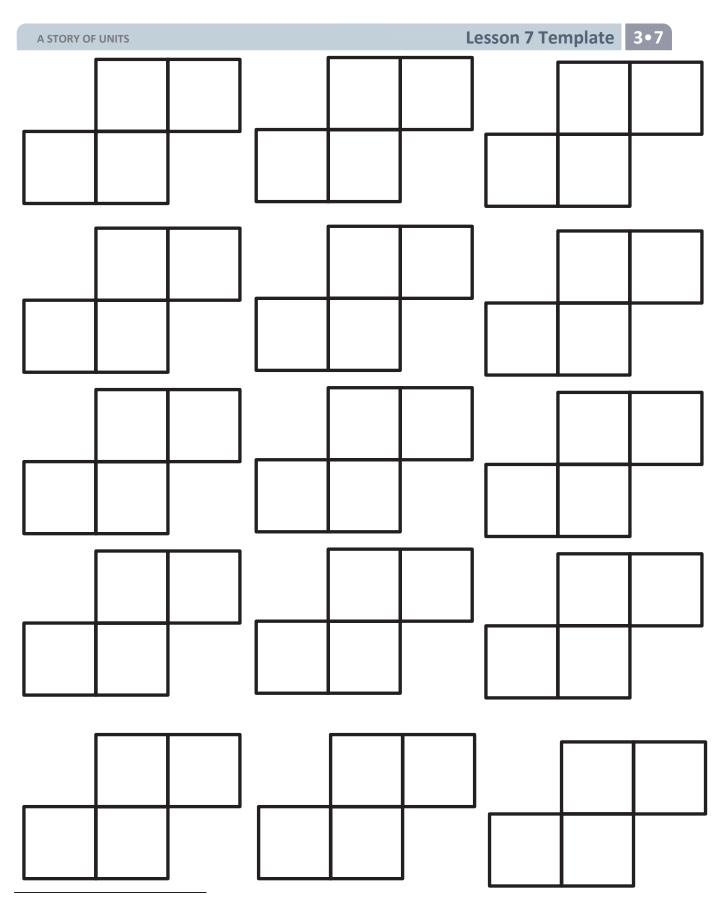
Reason about composing and decomposing polygons using tetrominoes.

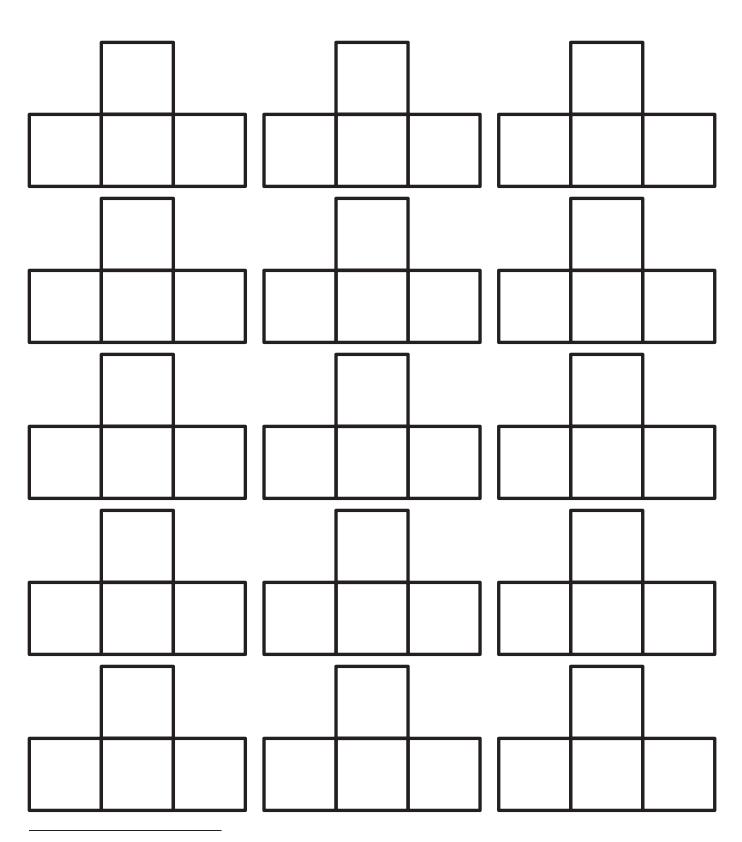




Lesson 7:

Reason about composing and decomposing polygons using tetrominoes.

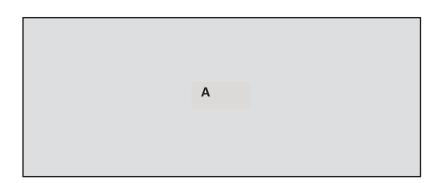


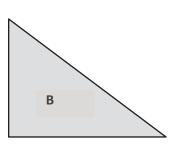


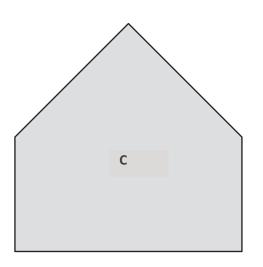


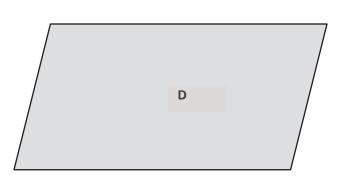
Lesson 7:

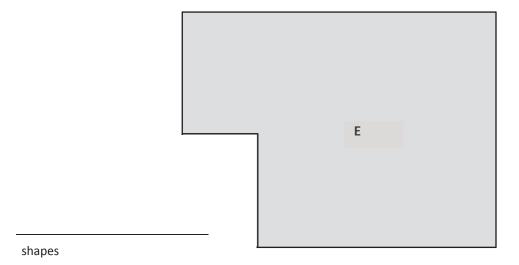
Reason about composing and decomposing polygons using tetrominoes.









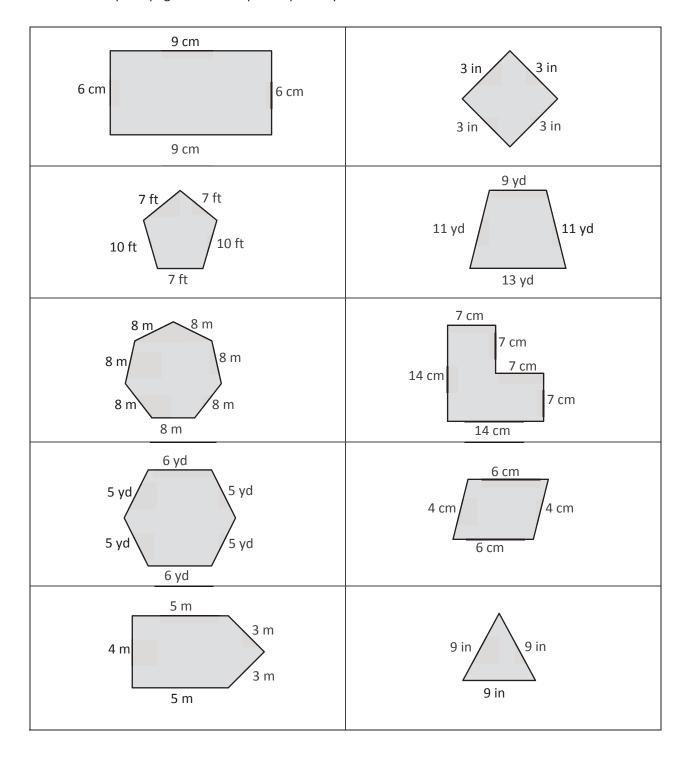




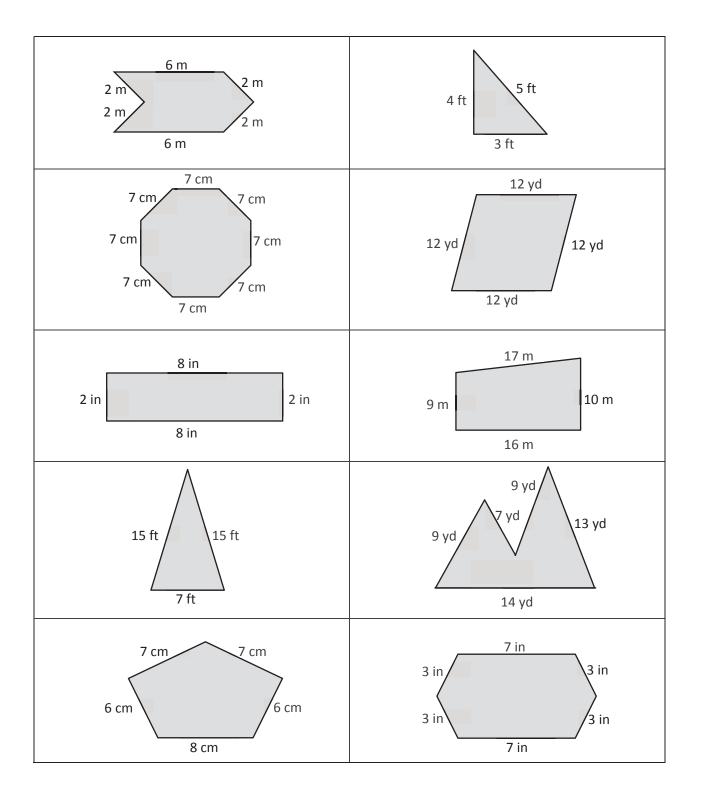
Lesson 12:

Measure side lengths in whole number units to determine the perimeter of polygons.

Note: Each template page must be copied separately for students to cut out the cards.



quiz-quiz-trade cards

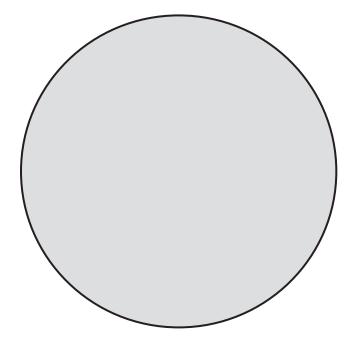


quiz-quiz-trade cards



Lesson 13:

Explore perimeter as an attribute of plane figures and solve problems.

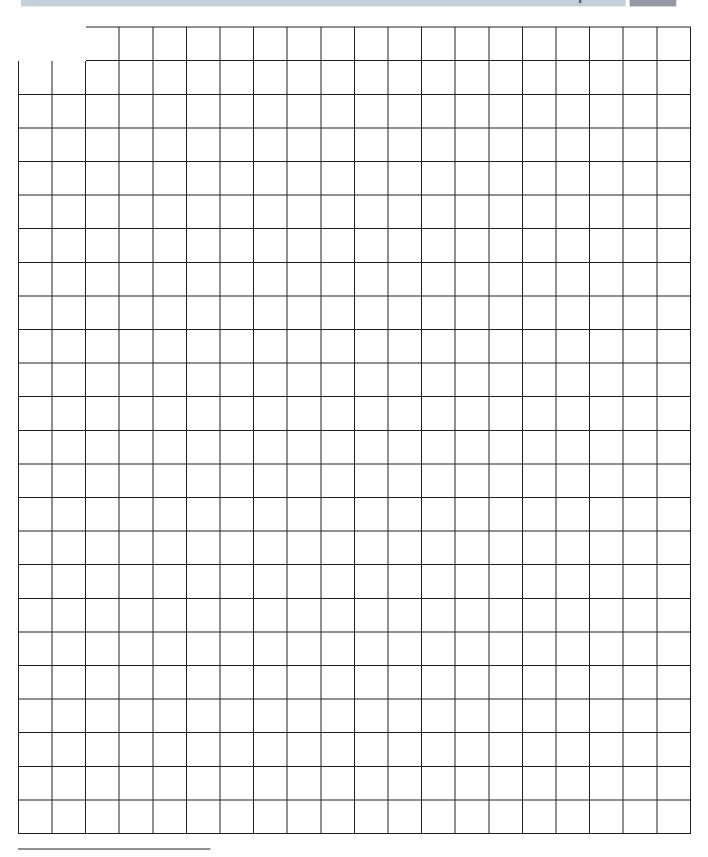


circles



Lesson 16:

Use string to measure the perimeter of various circles to the nearest quarter inch.

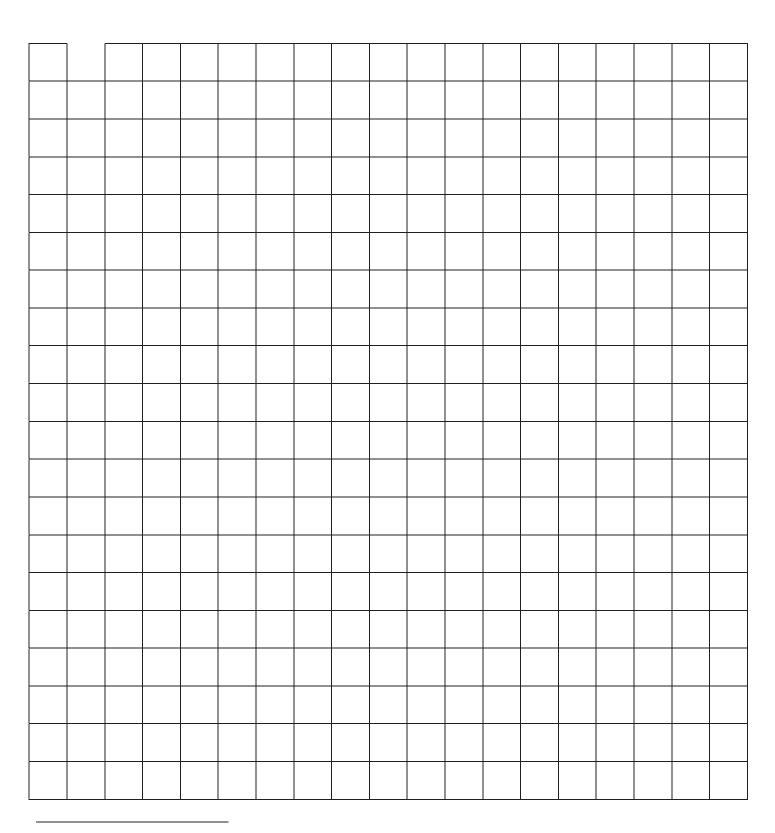


grid paper



Lesson 18:

Construct rectangles from a given number of unit squares and determine the perimeters.

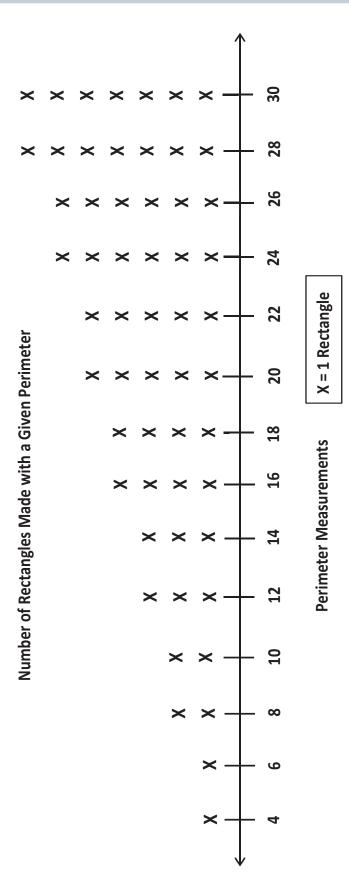


centimeter grid paper



Lesson 21:

Construct rectangles with a given perimeter using unit squares and determine their areas.



line plot

Rectangle A

Rectangle B

Rectangle C

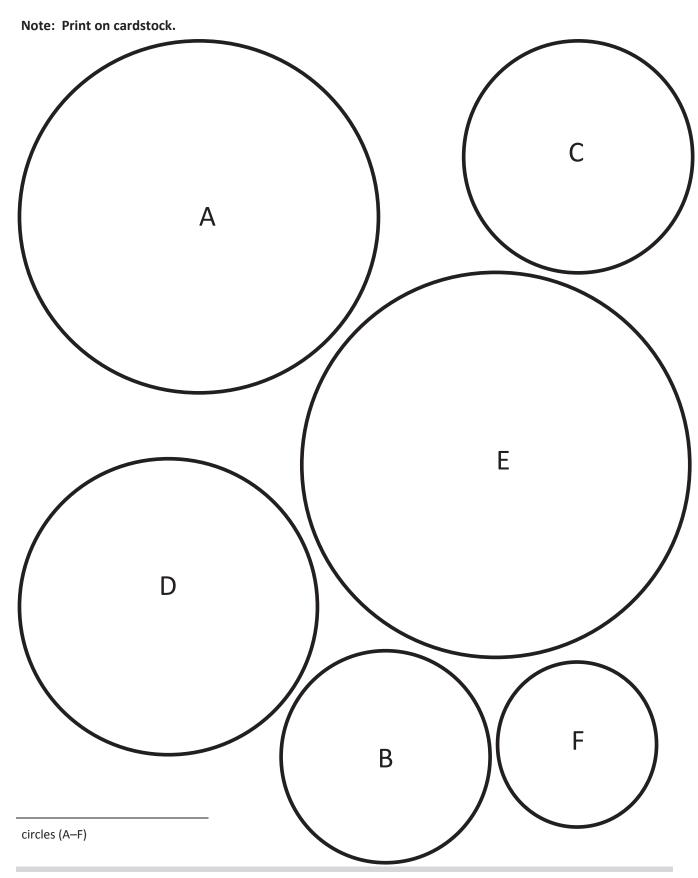
Rectangle D

rectangles



Lesson 22:

Use a line plot to record the number of rectangles constructed in Lessons 20 and 21.



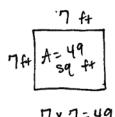


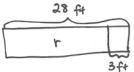
Lesson 26:

Use rectangles to draw a robot with specified perimeter measurements, and reason about the different areas that may be produced.

51

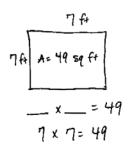
Student A

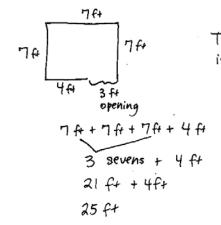




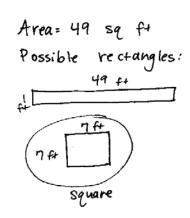
r= 28 - 3 r= 25 The total length of the rope is 25 feet.

Student B





Student C



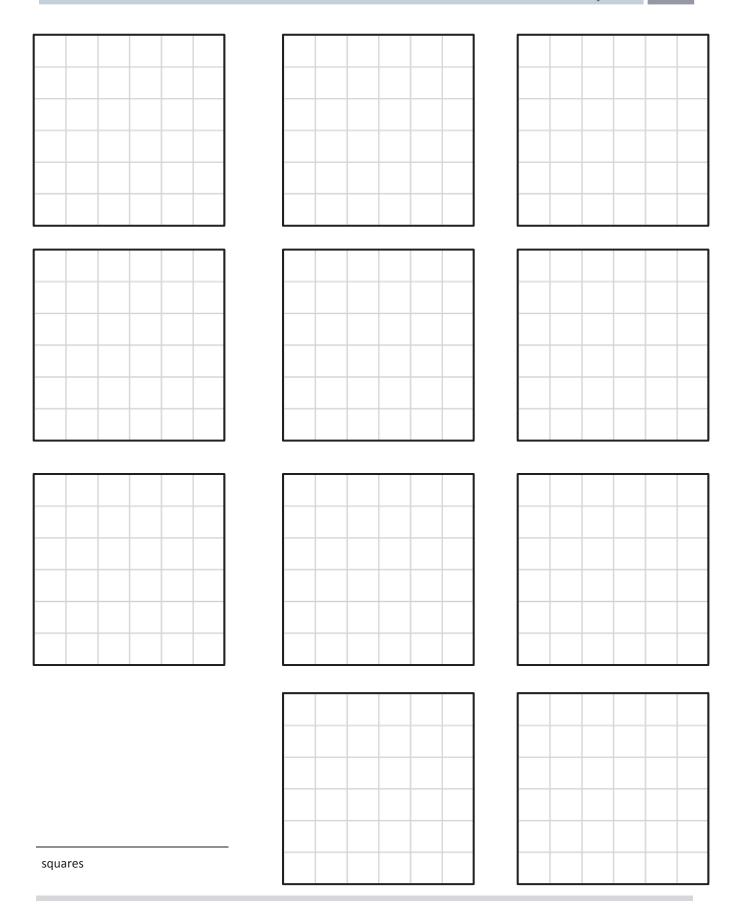
student work sample images



Lesson 30:

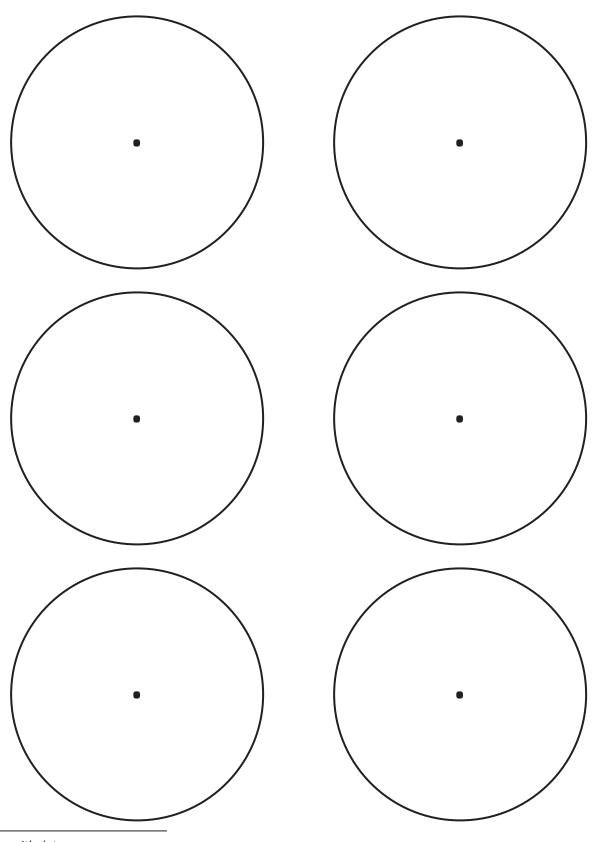
Share and critique peer strategies for problem solving.





Lesson 31:

Explore and create unconventional representations of one-half.



circles with dots



Lesson 32:

Explore and create unconventional representations of one-half.

Name Date	
-----------	--

Complete a math activity each day. To track your progress, color the box after you finish.

Summer Math Review: Weeks 1-5

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	Do jumping jacks as you count by twos from 2 to 20 and back.	Play a game from your Summer Practice booklet.	Use your tangram pieces to make a picture of your summer break.	Time how long it takes you to do a specific chore, like making the bed. See if you can do it faster the next day.	Complete a Sprint.
Week 2	Do squats as you count by threes from 3 to 30 and back.	Play a game from your Summer Practice booklet.	Collect data about your family's or friends' favorite type of music. Show it on a bar graph. What did you discover from your graph?	Read a recipe. What fractions does the recipe use?	Complete a Multiply-By Pattern Sheet.
Week 3	Hop on one foot as you count by fours from 4 to 40 and back.	Create a multiplication and/or division math game. Then, play the game with a partner.	Measure the widths of different leaves from the same tree to the nearest quarter inch. Then, draw a line plot of your data. Do you notice a pattern?	Read the weight in grams of different food items in your kitchen. Round the weights to the nearest 10 or 100 grams.	Complete a Sprint.
Week 4	Bounce a ball as you count by 5 minutes to 1 hour and then to the half hour and quarter hours.	Find, draw, and/or create different objects to show one-fourth.	Go on a shape scavenger hunt. Find as many quadrilaterals in your neighborhood or house as you can.	Find the sum and difference of 453 mL and 379 mL.	Complete a Multiply-By Pattern Sheet.
Week 5	Do arm swings as you count by sixes from 6 to 60 and back.	Draw and label a floor plan of your house.	Measure the perimeter of the room where you sleep in inches. Then, calculate the area.	Use a stopwatch to measure how fast you can run 50 meters. Do it 3 times. What was your fastest time?	Complete a Sprint.

Lesson 34:

Create resource booklets to support fluency with Grade 3 skills.

Name	Date	

Complete a math activity each day. To track your progress, color the box after you finish.

Summer Math Review: Weeks 6-10

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 6	Alternate counting with a friend or family member by sevens from 7 to 70 and back.	Play a game from your Summer Practice booklet.	Write a story problem for 7 × 6.	Solve 15 × 4. Draw a model to show your thinking.	Complete a Multiply-By Pattern Sheet.
Week 7	Jump forward and back as you count by eights from 8 to 80 and back.	Play a game from your Summer Practice booklet.	Use string to measure the perimeter of circular items in your house to the nearest quarter inch.	Build a 4 by 6 array with objects from your house. Write 2 multiplication and 2 division sentences for your array.	Complete a Sprint.
Week 8	Do arm crosses as you count by nines from 9 to 90 and back. Teach someone the nines finger trick.	Create a multiplication and/or division math game. Then, play the game with a partner.	Write a story problem for 72 ÷ 8.	Measure or find the capacity in milliliters of different liquids in your kitchen. Round each to the nearest 10 or 100 milliliters.	Complete a Multiply-By Pattern Sheet.
Week 9	Jump rope as you count up by tens from 280 to 370 and back down.	Find, draw, and/or create different objects to show one-third.	Go on a shape scavenger hunt. Find as many triangles and hexagons in your neighborhood as you can.	Measure the weight of different produce at the grocery store. What unit did you measure in? What are the lightest and heaviest objects you weighed?	Complete a Sprint.
Week 10	Count by sixes starting at 48. Count as high as you can in one minute.	Draw and label a floor plan of your dream tree house.	Find the perimeter of a different room in your house. How much smaller or larger is it compared to the perimeter of the room where you sleep?	Show someone your strategy to solve 8 × 16.	Complete a Multiply-By Pattern Sheet.

Lesson 34:

Create resource booklets to support fluency with Grade 3 skills.