Name _____ Date _____

Extra Assessment Tasks: Area

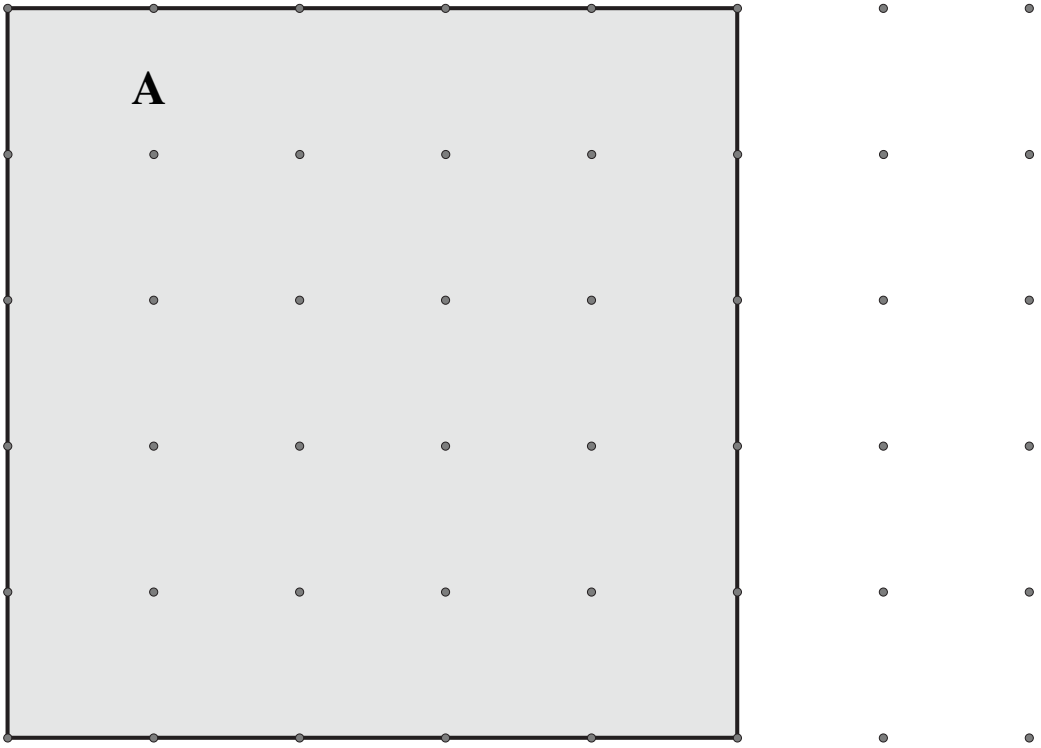
PROBLEM 13

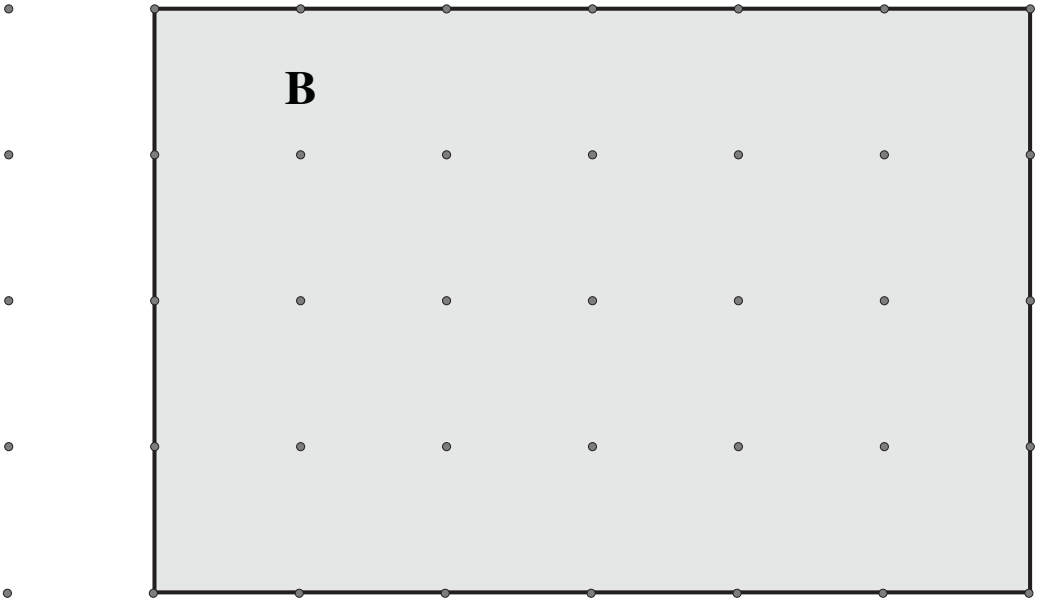
Look at the chocolate bars on the next page.

Which rectangular chocolate bar is bigger and has more to eat? Or are the chocolate bars the same size?

Explain how you found your answer.

Name _____ Date _____



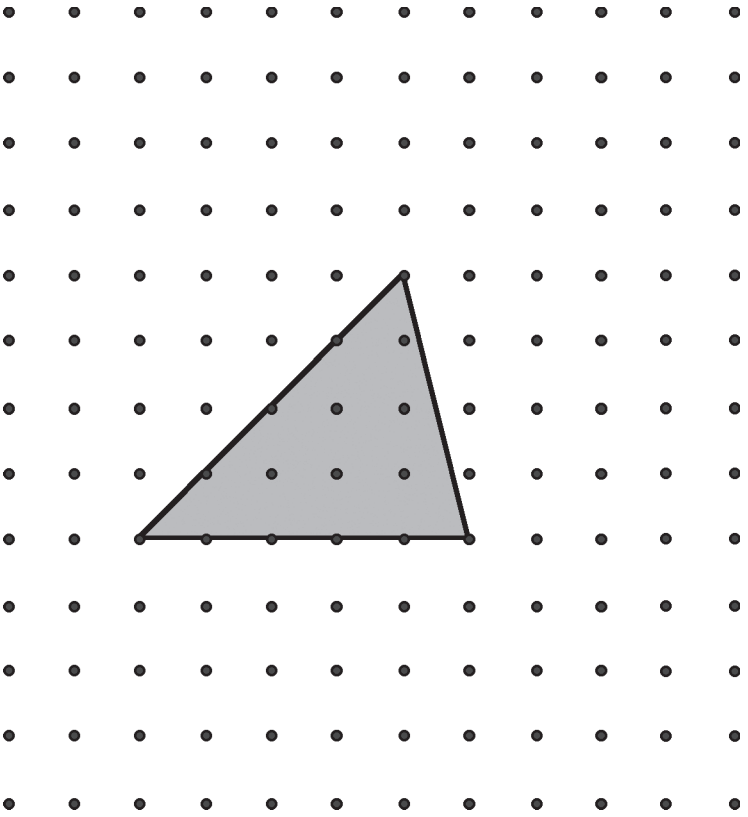


Name _____ Date _____

PROBLEM 14

How many squares like this  does it take to cover the inside of the triangle below?

The squares can be cut apart.



Explain your answer.

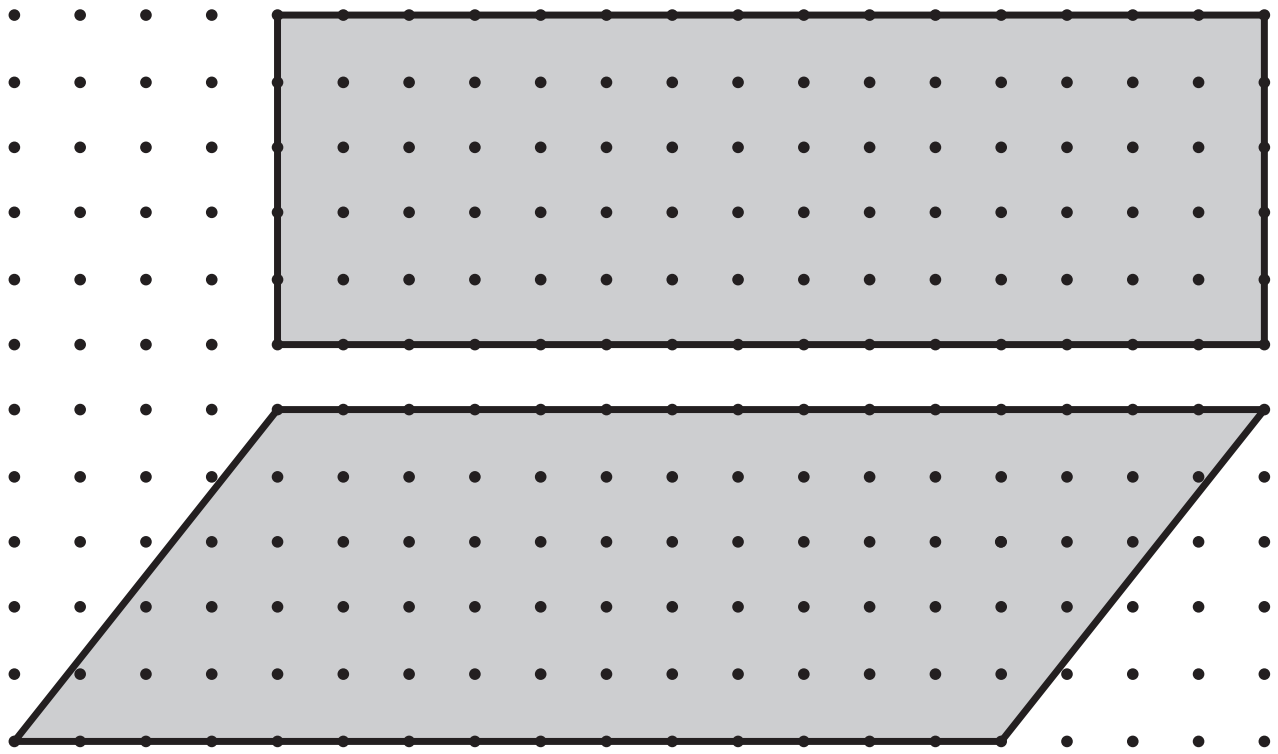
Name _____ Date _____

PROBLEM 15

It takes 100 Allegra stickers to cover the inside of the top shape.

How many Allegra stickers does it take to cover the inside of the bottom shape?

The stickers can be cut apart. Explain your answer.



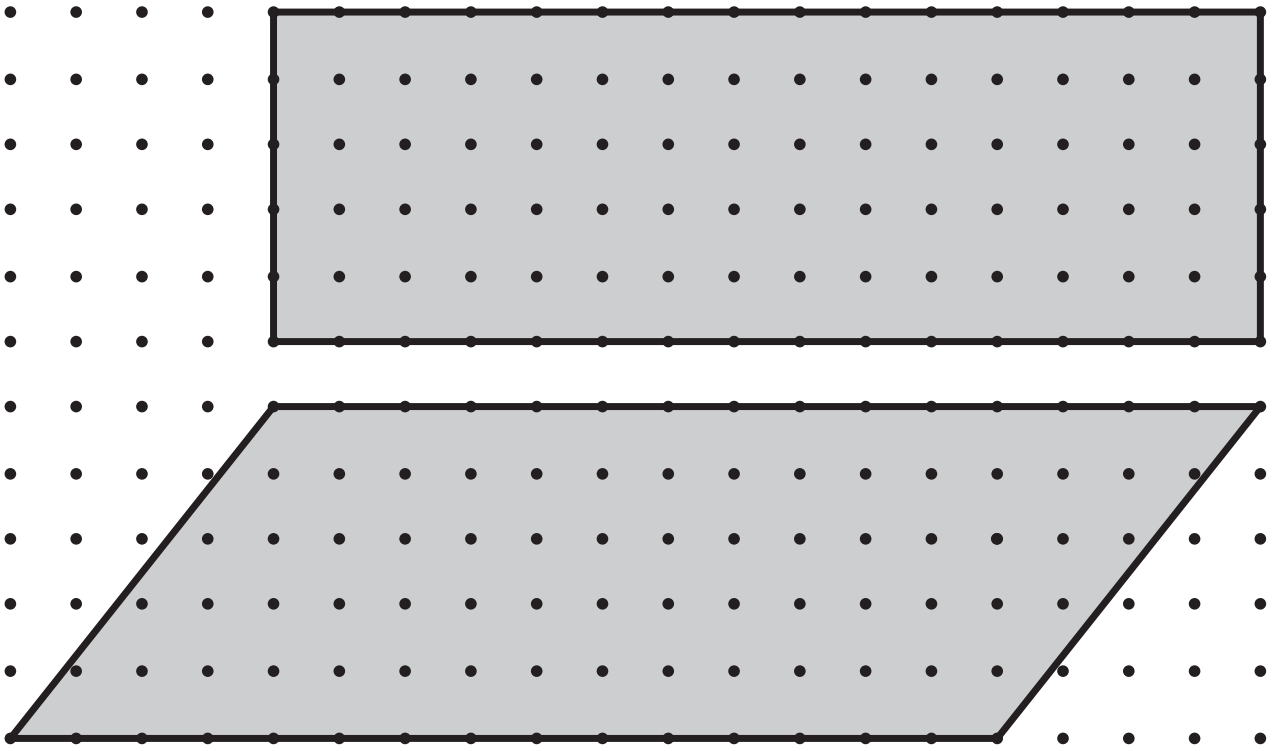
Name _____ Date _____

PROBLEM 15P

It takes 15 Allegra stickers to cover the inside of the top shape.

How many Allegra stickers does it take to cover the inside of the bottom shape?

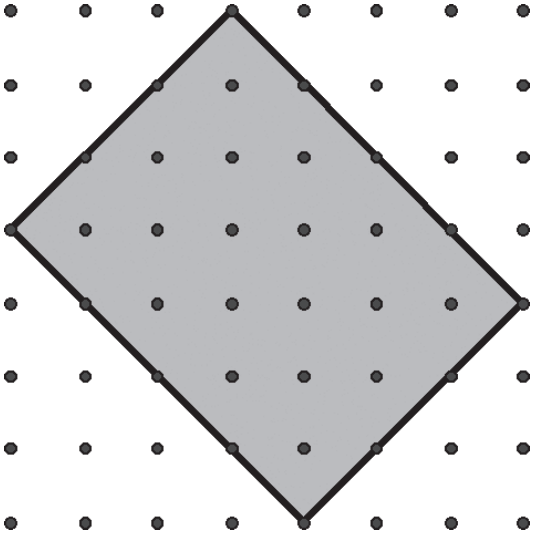
The stickers can be cut apart. Explain your answer.



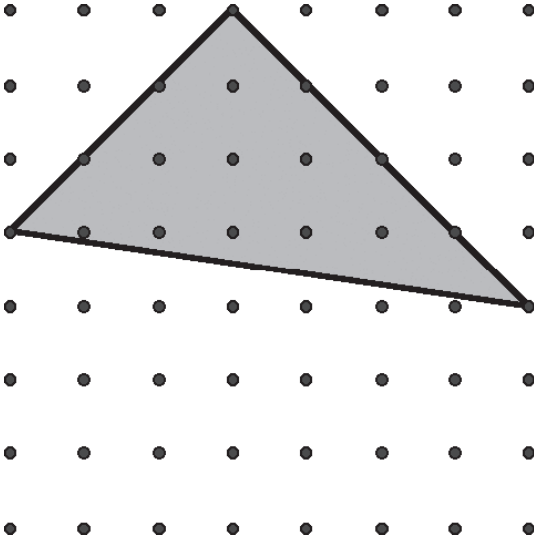
Name _____ Date _____

PROBLEM 16

It takes 24 Batman stickers to cover the inside of this shape. The stickers can be cut apart.



How many Batman stickers does it take to cover the inside of this shape?

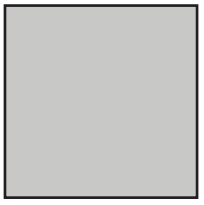


Explain your answer.

Name _____ Date _____

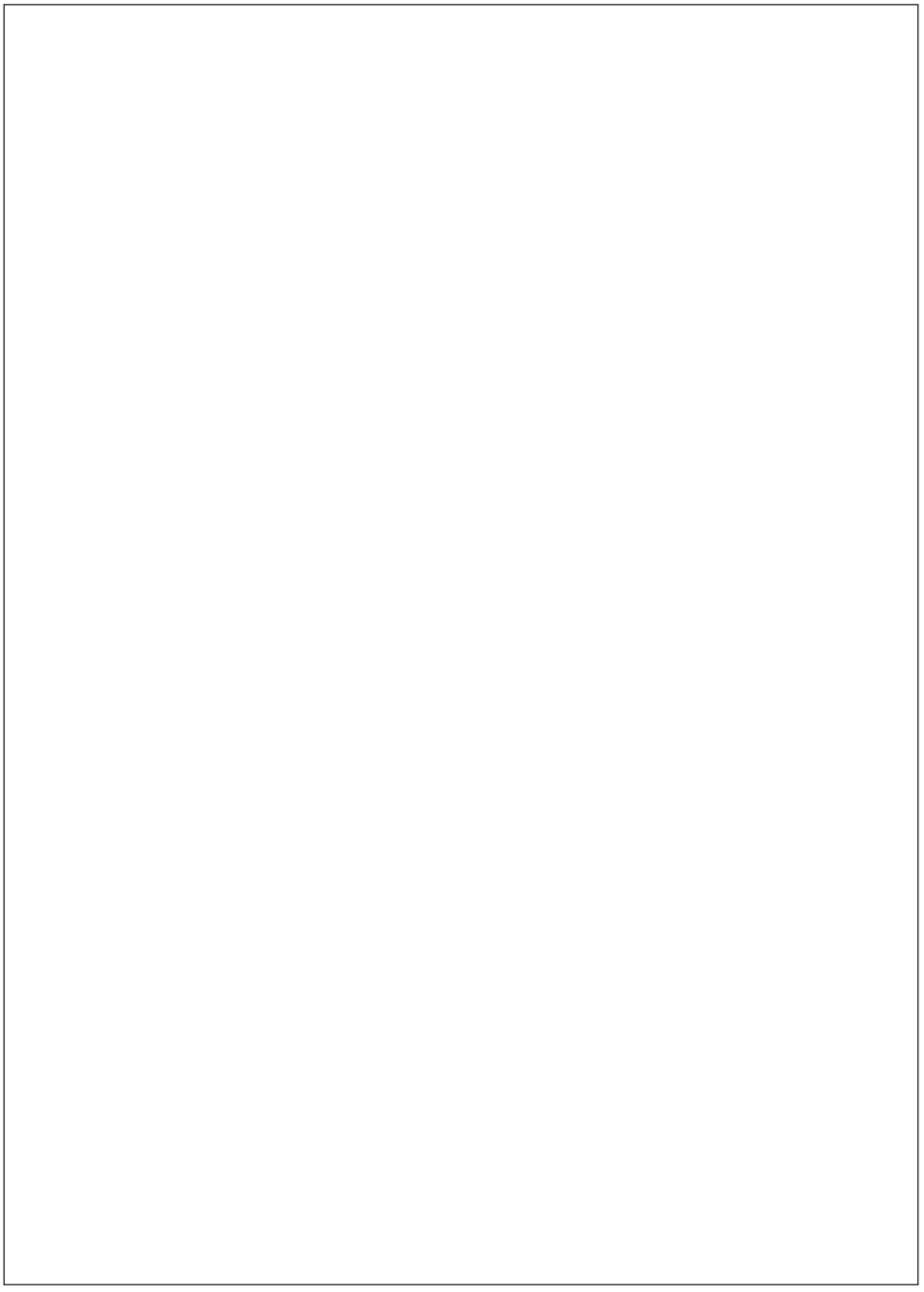
PROBLEM 17

Five gray squares fit across the top of the rectangle. Seven gray squares fit down the right side of the rectangle. How many squares will it take to completely cover the inside of the rectangle?
Explain your thinking.



Name _____ Date _____

PROBLEM 17 (*Continued*)

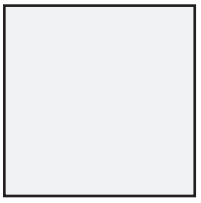


Name _____ Date _____

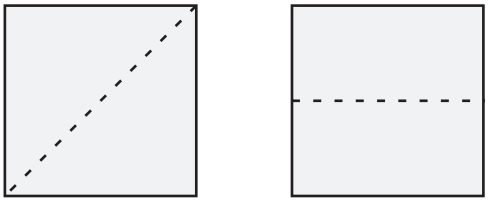
PROBLEM 18

Mary wants to make a fancy chocolate bar out of chocolate squares.

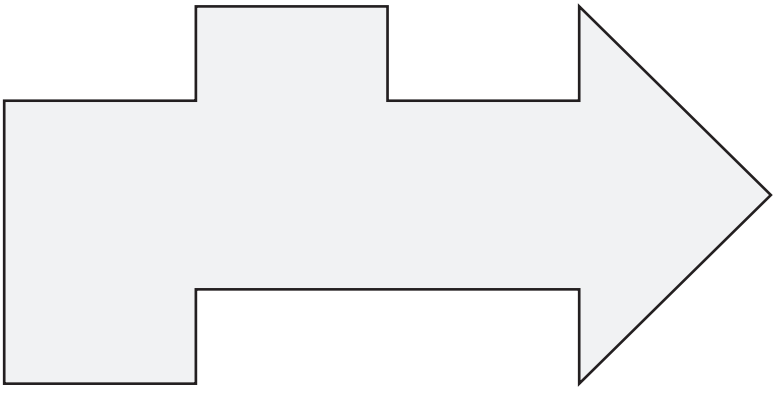
A whole chocolate square looks like this.



The chocolate squares can be cut in half like this or this.



How many <u>whole</u> chocolate squares will it take to make the fancy chocolate bar below?

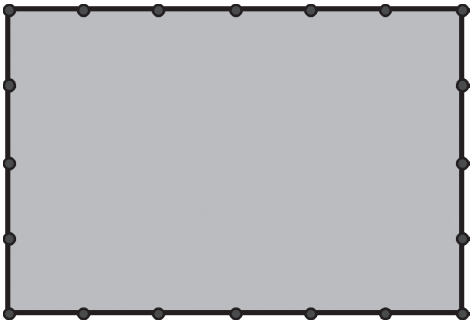


Explain your thinking.

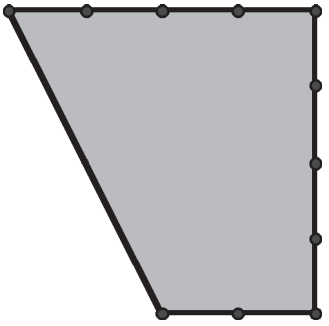
Name _____ Date _____

PROBLEM 19

It takes 6 Curious George stickers to cover this shape.



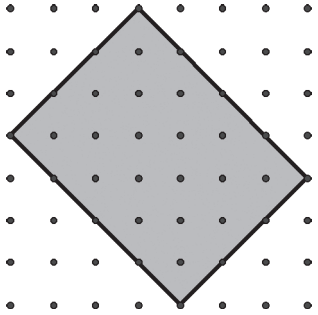
How many Curious George stickers are needed to cover this shape? The stickers can be cut apart.



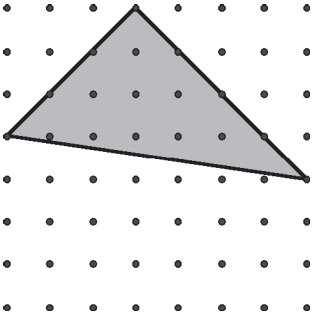
Name _____ Date _____

PROBLEM 20

It takes 36 Batman stickers to cover the inside of this shape. The stickers can be cut apart.



How many Batman stickers does it take to cover the inside of this shape?

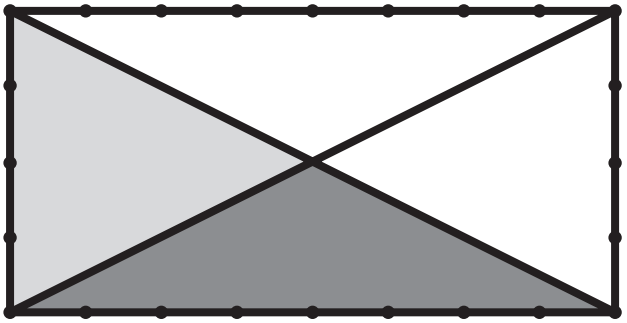


Explain your answer.

Name _____ Date _____

PROBLEM 21

Explain why the area of the table covered by the black triangle is the same as the area covered by the gray triangle.

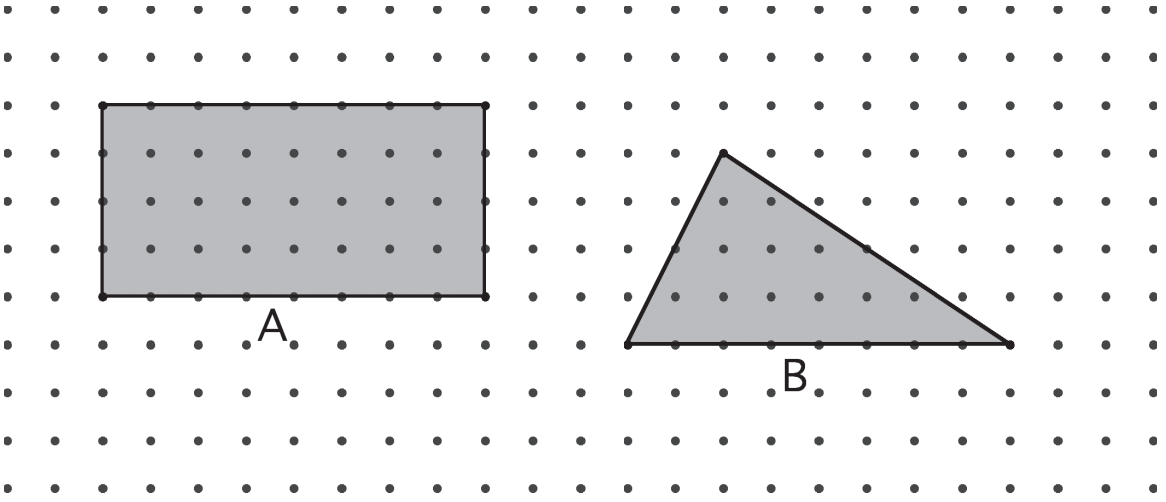


Name _____ Date _____

PROBLEM 22

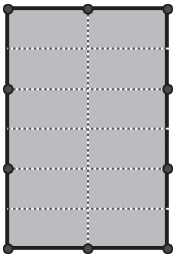
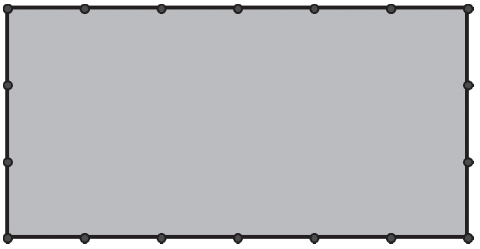
Let's pretend these are two chocolate bars. Mary says that Chocolate Bar A has twice as much chocolate as Chocolate Bar B. What do you think?

Prove your answer is correct.



Name _____ Date _____

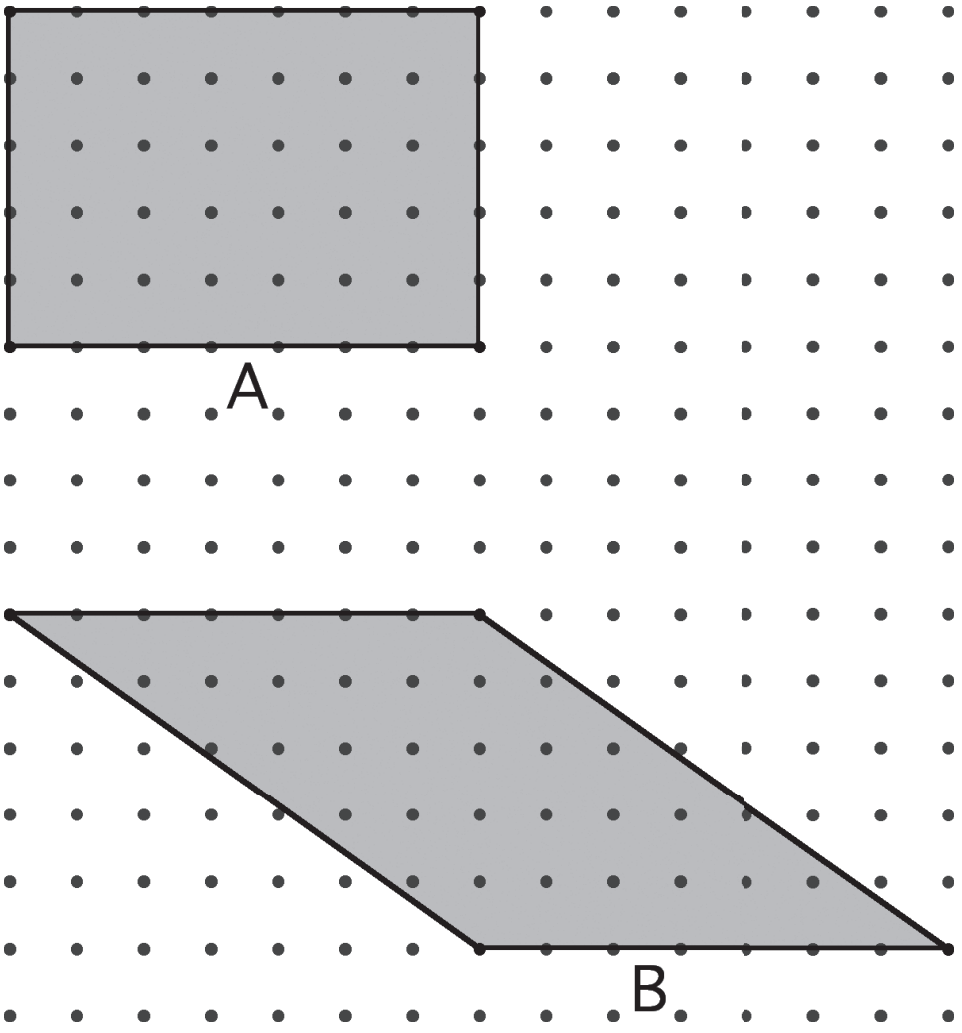
PROBLEM 23

It takes 12 of one kind of sticker to cover this shape. All stickers are the same size. The stickers are shown. 	How many of the same kind of sticker does it take to cover this shape? 

Name _____ Date _____

PROBLEM 24

Explain how you can cut Shape A into two pieces that make Shape B.

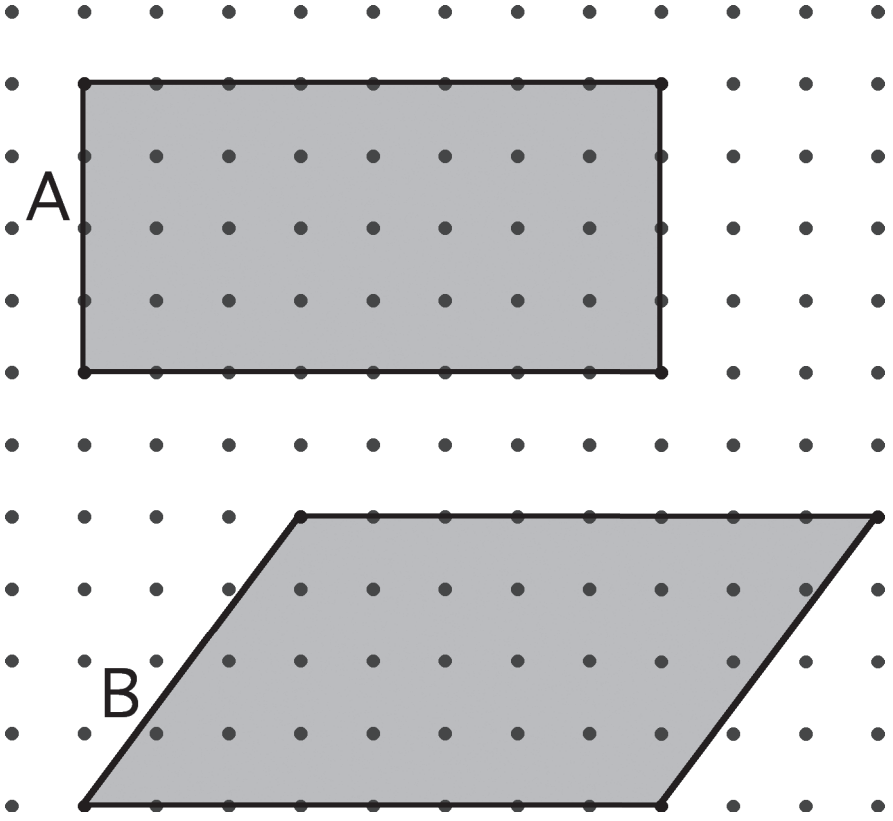


Name _____ Date _____

PROBLEM 25

Which shape covers more of the table top, or do they cover the same amount?

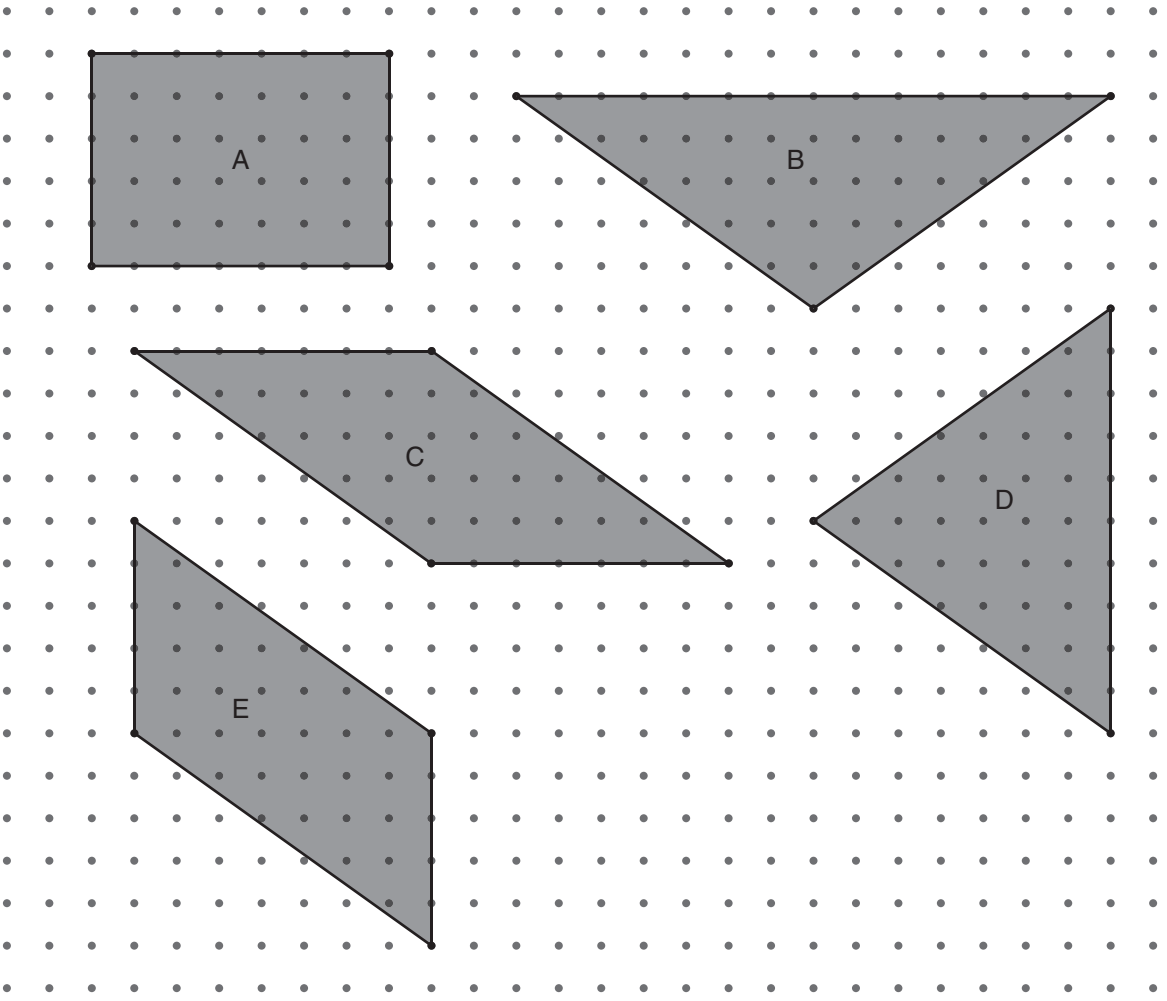
Explain your answer.



Name _____ Date _____

PROBLEM 26

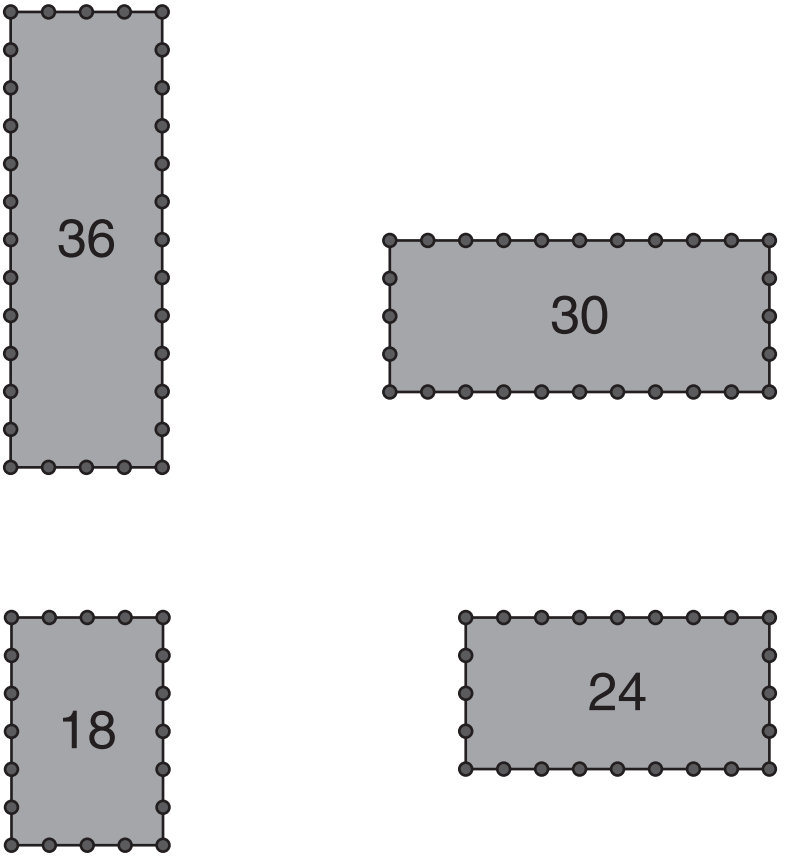
How can you cut Rectangle A apart so that you can make each of Shapes B-E?



Name _____ Date _____

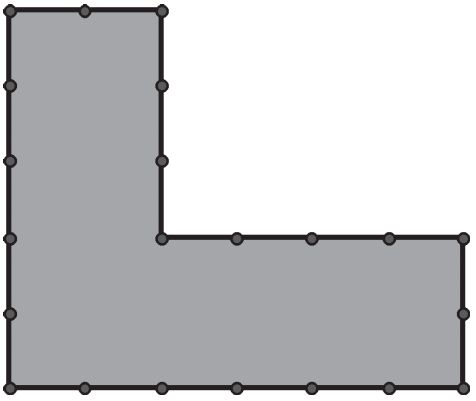
PROBLEM 27

The number of Spider Man stickers it takes to cover each shape is shown.



How many Spider Man stickers will it take to cover this shape?

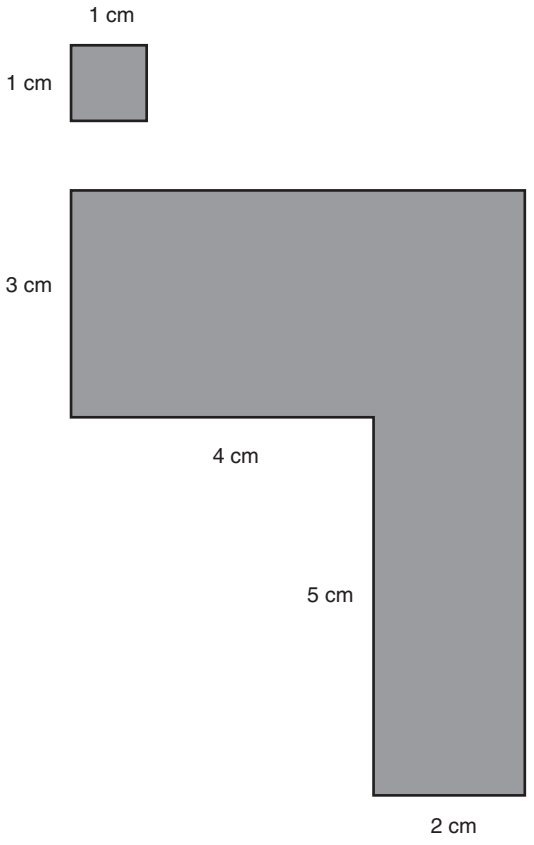
Explain your answer.



Name _____ Date _____

PROBLEM 28

The square is a square centimeter.



How many square centimeters does it take to completely cover the gray shape? Explain how you found your answer.

Name _____ Date _____

RECTANGLE TASKS

Show students a square plastic tile and tell them that in Problems 28–37 they will be finding how many square tiles it takes to completely cover the insides of the shapes.

When doing Problems 28–37 with students, the following sequence of steps is useful.

Step 1. Have students predict how many squares it takes to cover the inside of the rectangles, without using tiles and without drawing.

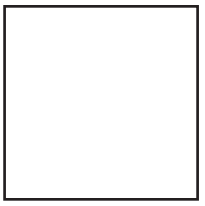
Step 2. Have students draw where they think the squares will go, then make another prediction.

Step 3. Have students check their predictions using square tiles.

Note that even after placing tiles in the rectangles, some students will still have difficulty. For such students, you can have them take the tiles off the rectangle, one at a time, counting as they go. Then ask them again how many tiles it takes to completely cover the inside of the rectangle.

Name _____ Date _____

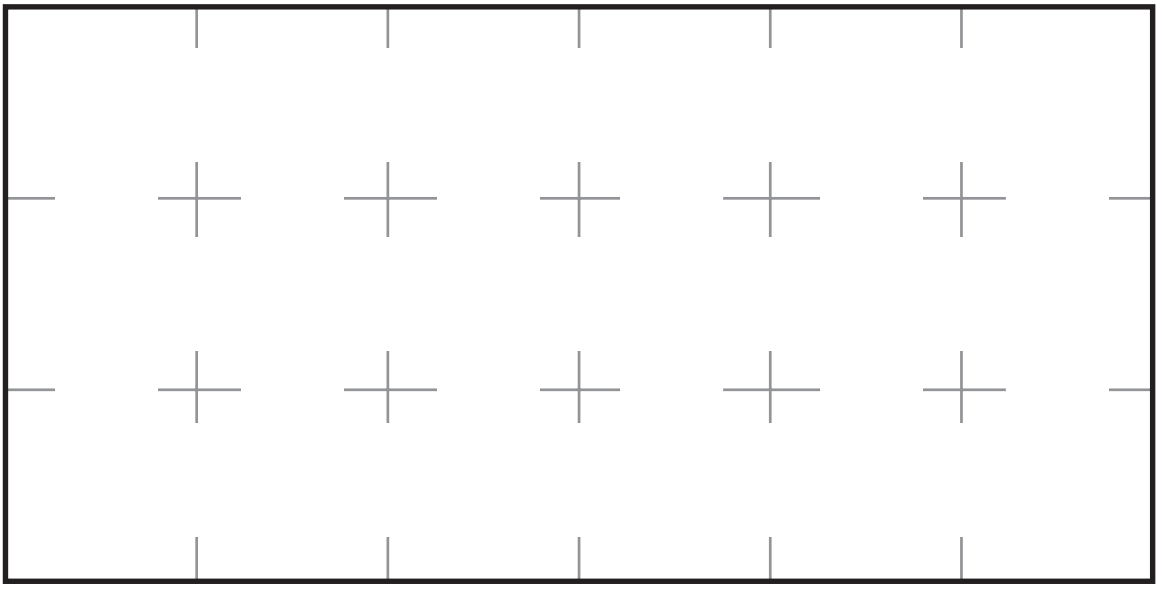
PROBLEM 29

How many square tiles like this  are needed to cover the rectangle below?

Predict without drawing _____

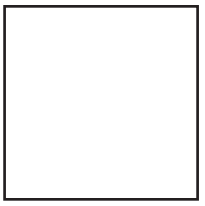
Predict after drawing _____

Check with square tiles _____



Name _____ Date _____

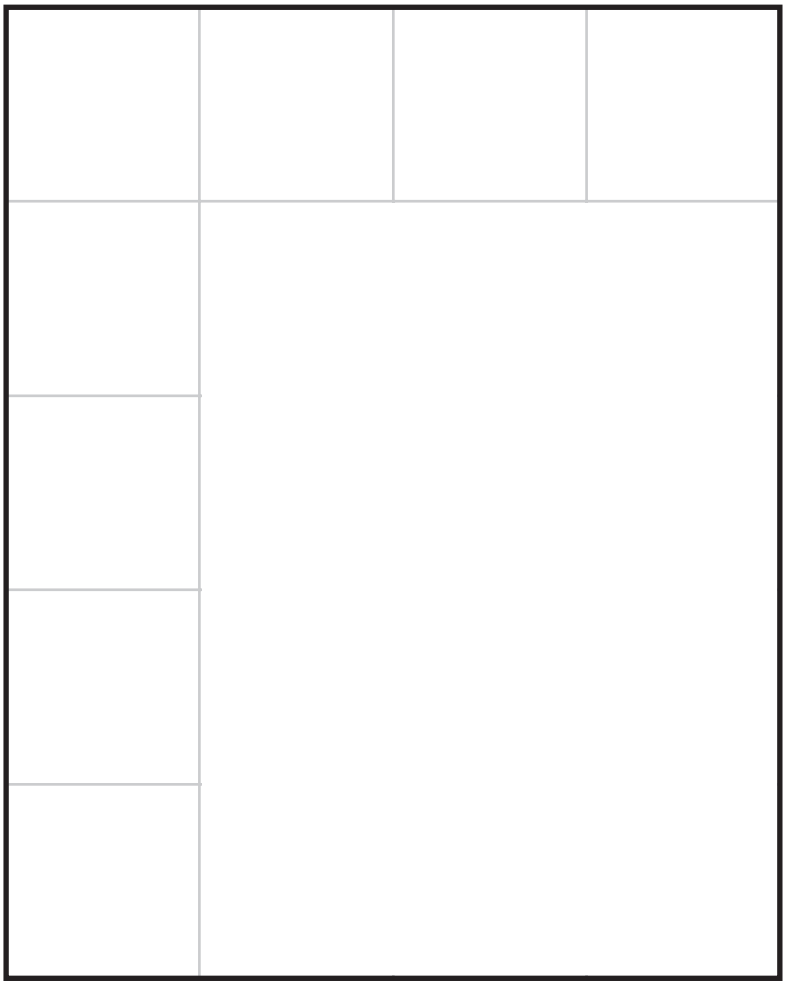
PROBLEM 30

How many square tiles like this  are needed to cover the rectangle below?

Predict without drawing _____

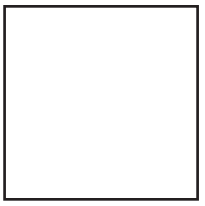
Predict after drawing _____

Check with square tiles _____



Name _____ Date _____

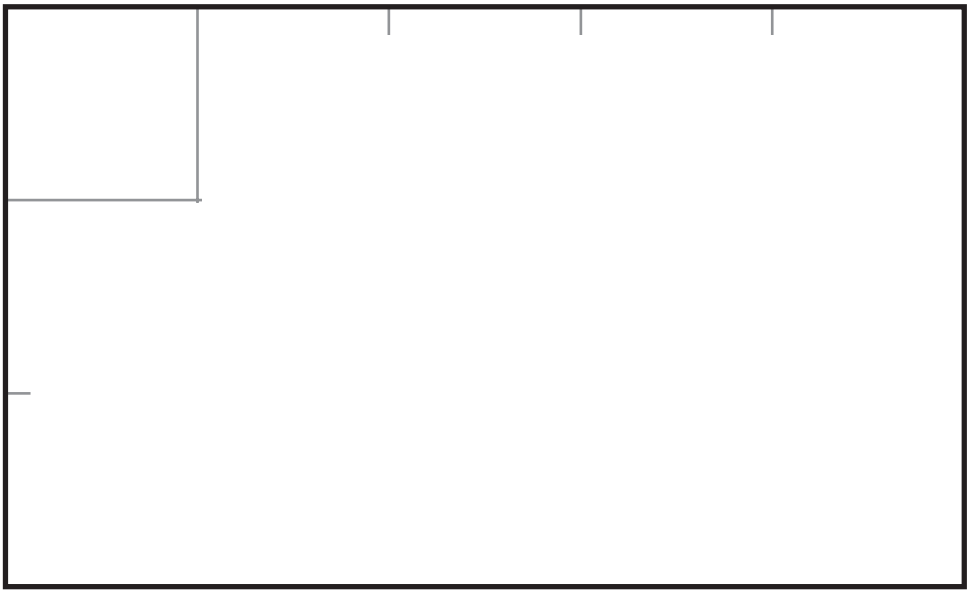
PROBLEM 31

How many square tiles like this  are needed to cover the rectangle below?

Predict without drawing _____

Predict after drawing _____

Check with square tiles _____



Name _____ Date _____

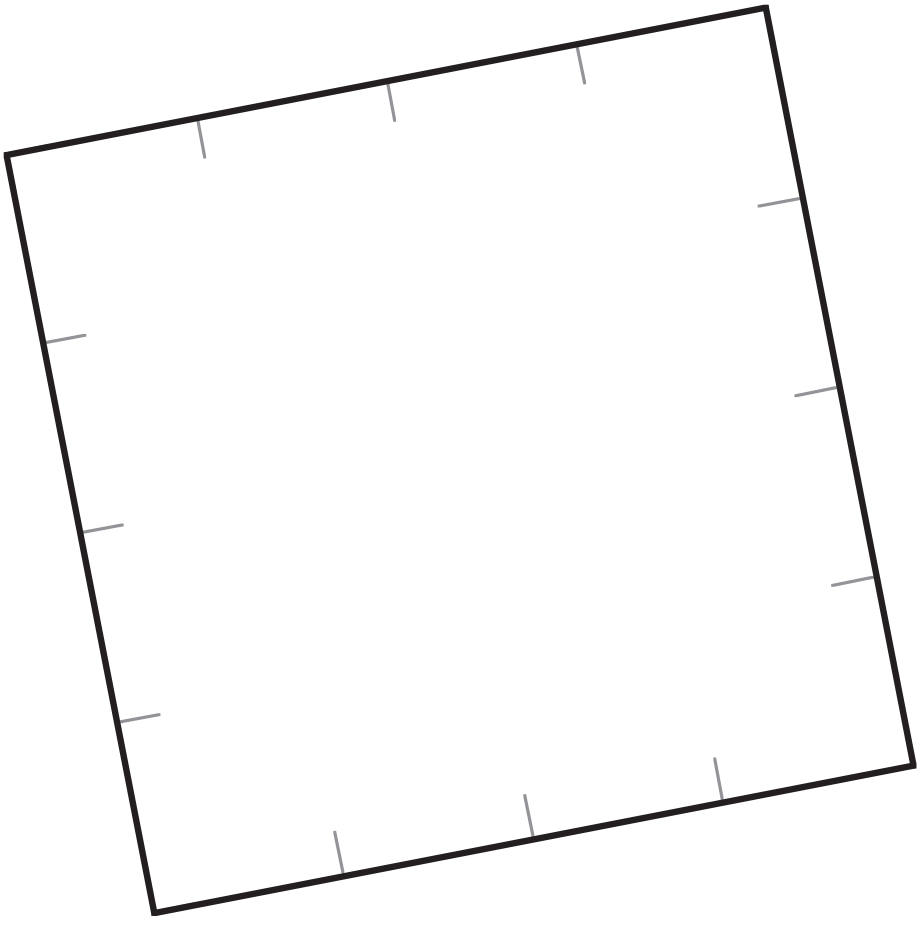
PROBLEM 32

Which of these two shapes is BIGGER on the inside?

Check your answer with blocks.

Prediction _____

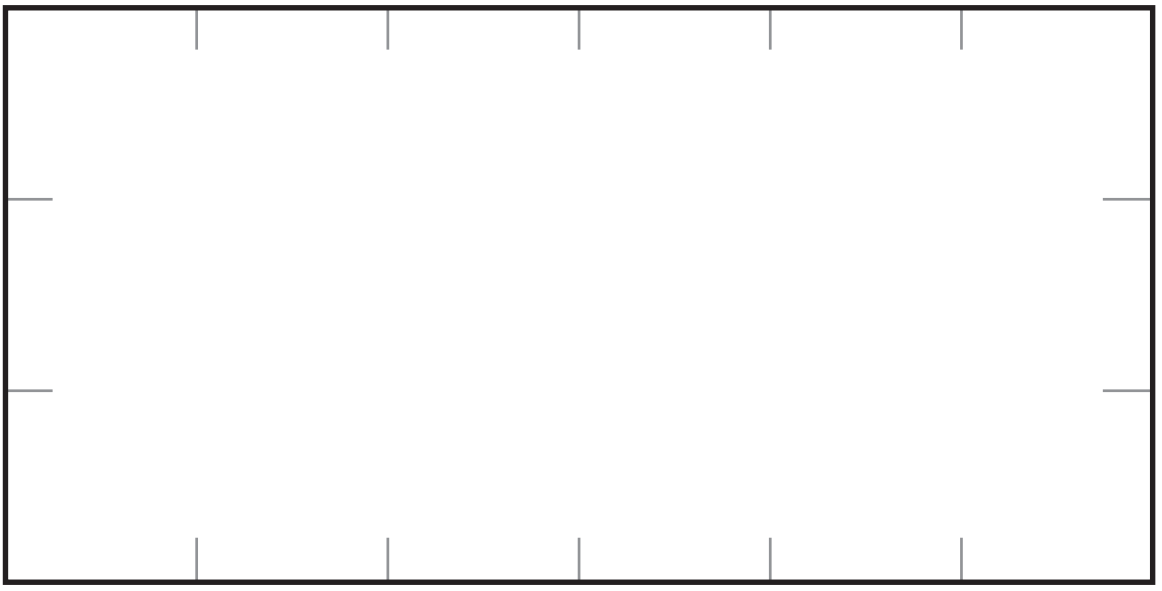
Check _____



A

Name _____ Date _____

PROBLEM 32 (*Continued*)



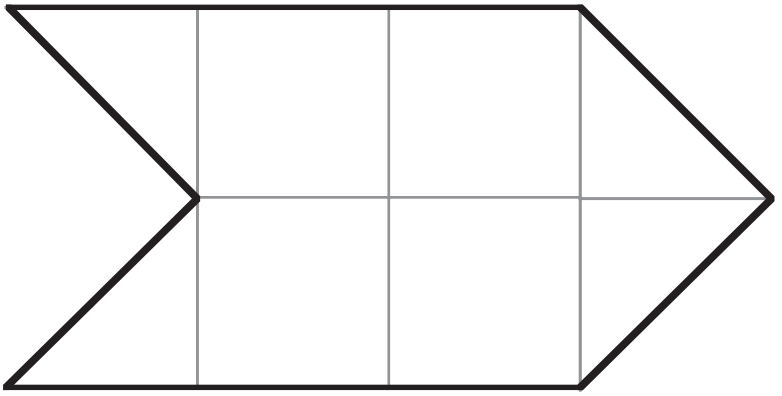
B

Name _____ Date _____

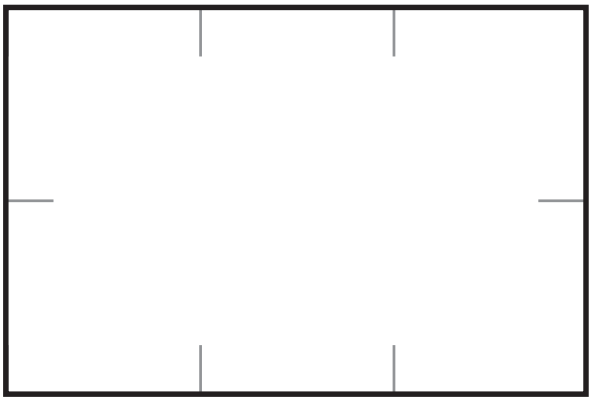
PROBLEM 33

Predict which of these two shapes is BIGGER on the inside.

Check your answer with blocks.



A

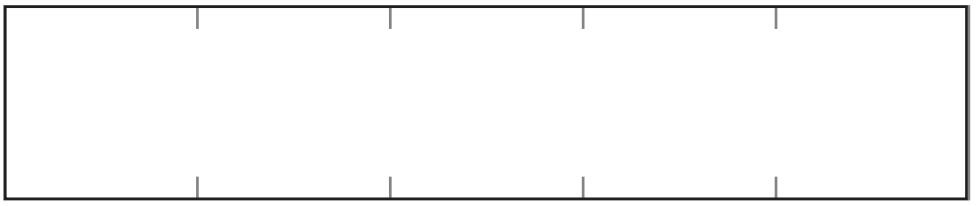


B

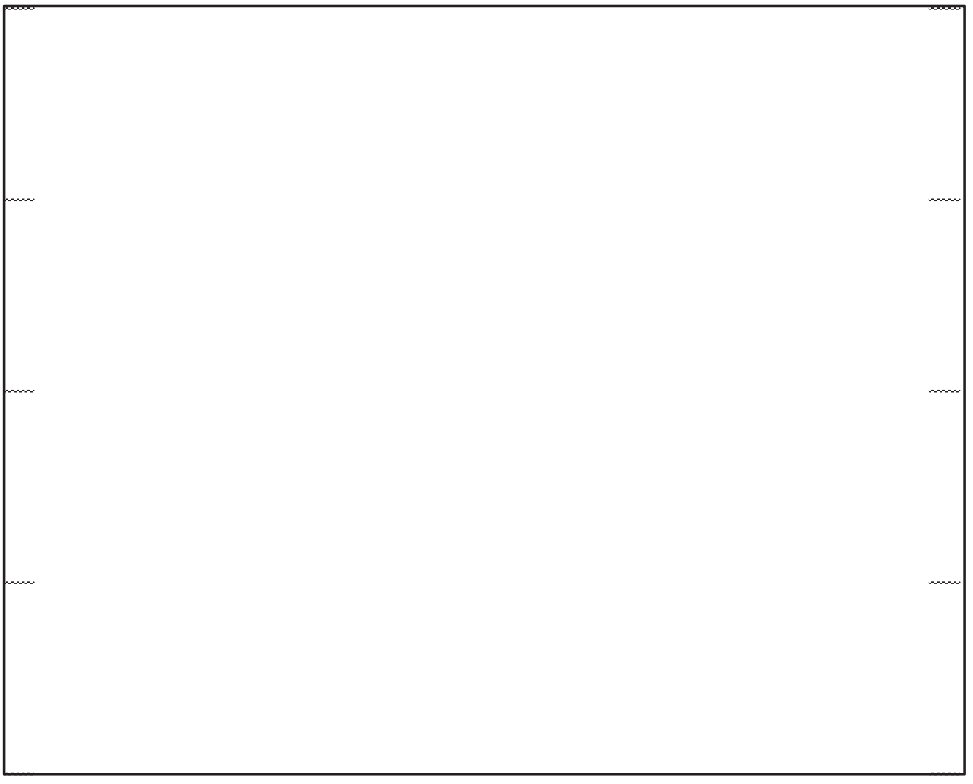
Name _____ Date _____

PROBLEM 34

How many plastic squares does it take to cover the small rectangle?



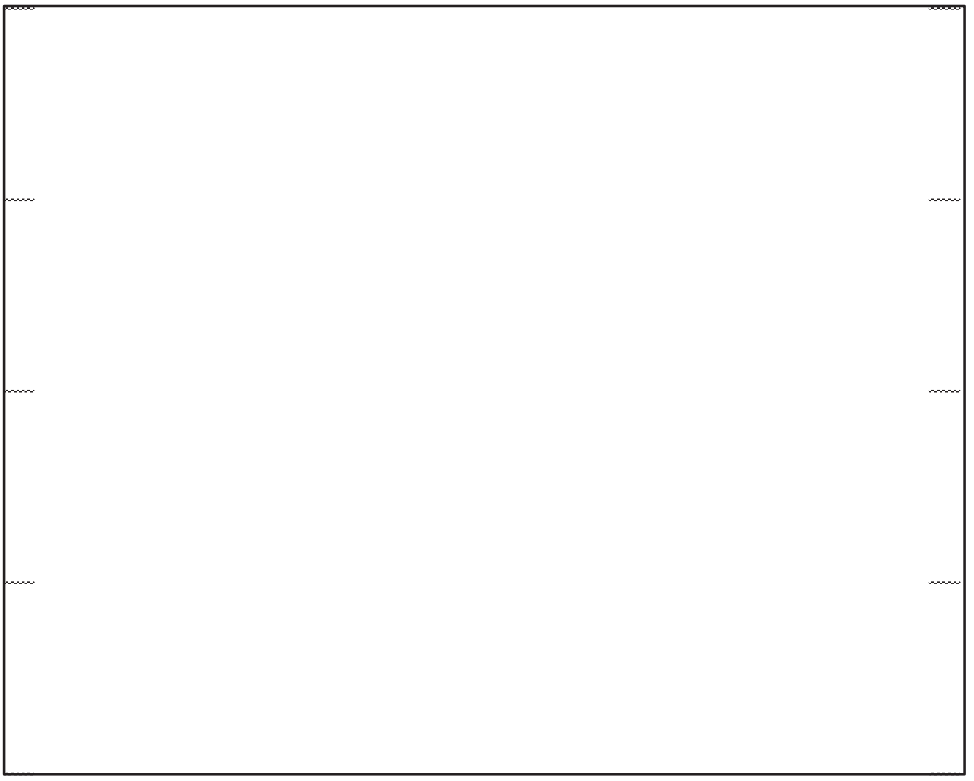
How many ***small rectangles*** does it take to cover the large rectangle? _____



Name _____ Date _____

PROBLEM 34 (*Continued*)

Predict how many plastic squares it takes to completely cover the inside of the large rectangle below.



Name _____ Date _____

PROBLEM 35

Give each student the following page. Explain the problem using an overhead projector or document camera.

Place one row of inch tiles along the inside top of the rectangle and ask:

How many squares does it take to go across the top?

Remove the squares.

Place one column of inch tiles vertically along the middle of the rectangle and ask:

How many squares does it take to go down the middle?

Remove the squares.

How many squares will it take to cover the whole rectangle?

Predict an answer, draw then predict, then check your answer with square tiles.

How many squares does it take to go across the top? _____

How many squares does it take to go down the middle? _____

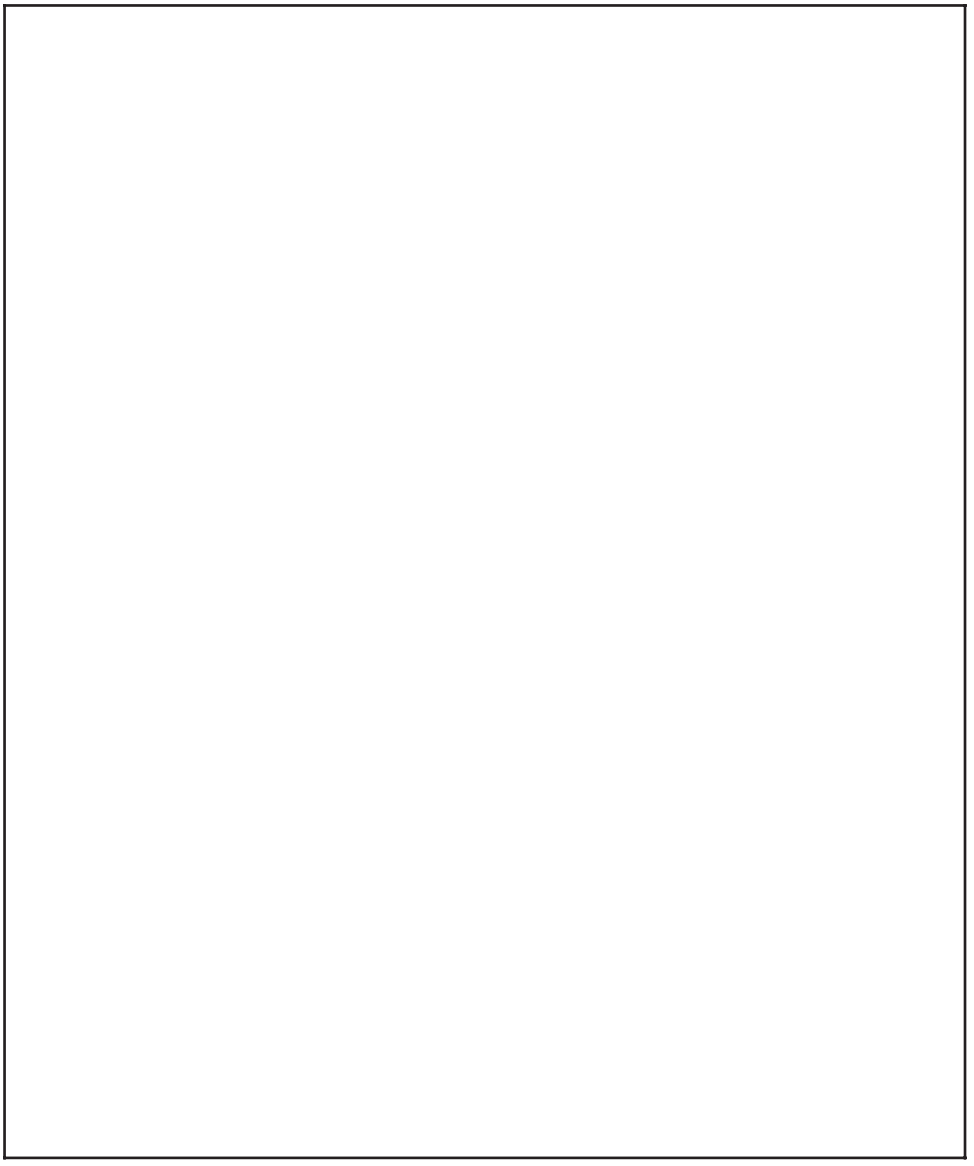
How many squares will it take to cover the whole rectangle? _____

Predict without drawing _____ Predict after drawing _____

Check with square tiles _____

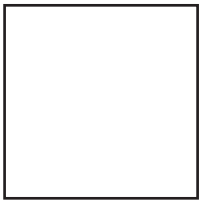
Name _____ Date _____

PROBLEM 35 (*Continued*)

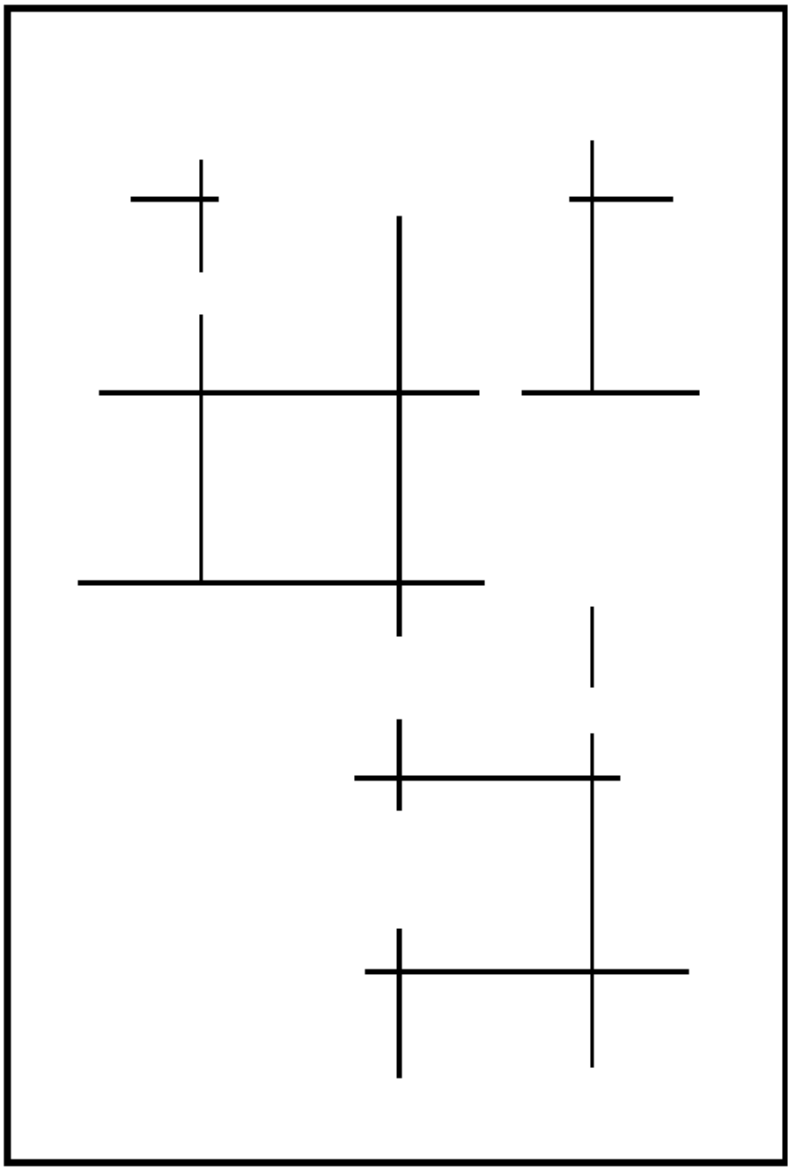


Name _____ Date _____

PROBLEM 36

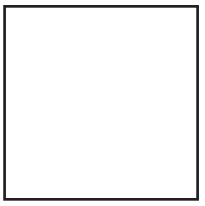
How many square tiles like this 

Predict without drawing _____ Predict after drawing _____ Check with square tiles _____



Name _____ Date _____

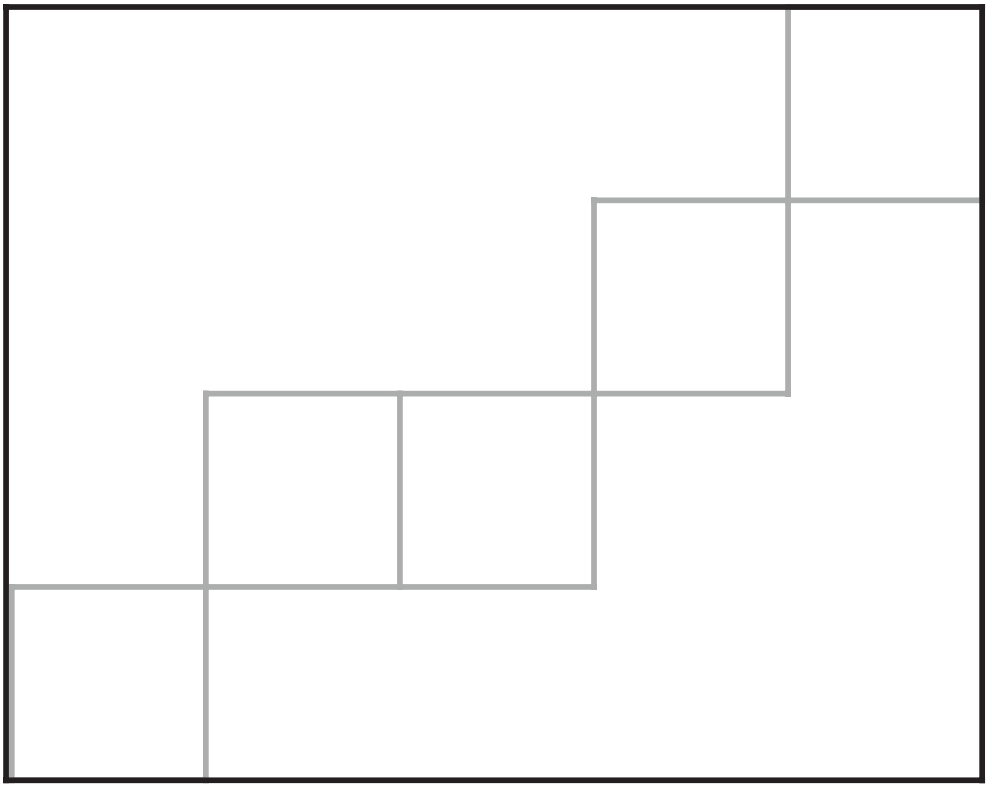
PROBLEM 37

How many square tiles like this  are needed to cover the rectangle below?

Predict without drawing _____

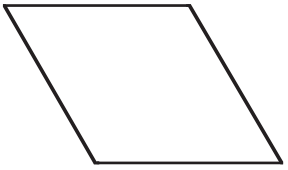
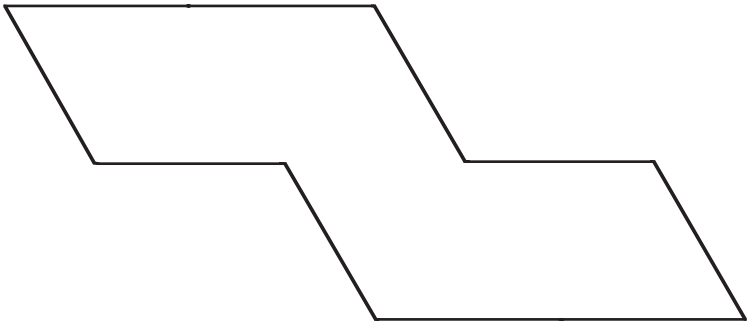
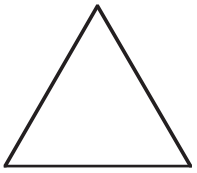
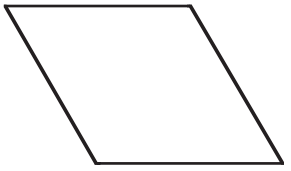
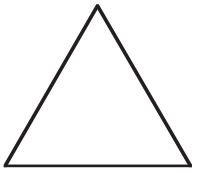
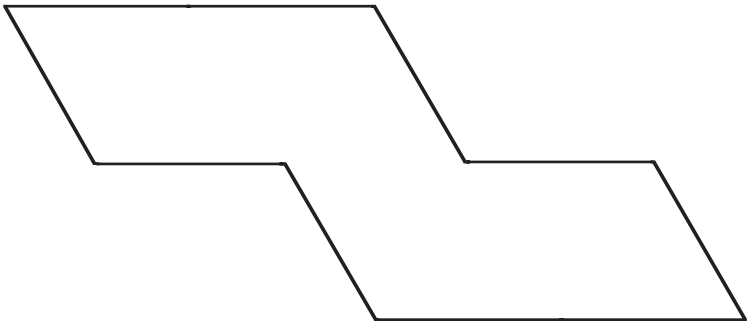
Predict after drawing _____

Check with square tiles _____



Name _____ Date _____

PROBLEM 38

How many blocks shaped like this	does it take to cover this shape? Predict, then check with blocks.
	 Prediction _____ Check _____
How many blocks shaped like this	does it take to cover this shape? Predict, then check with blocks.
	 Prediction _____ Check _____
How many blocks shaped like this	does it take to cover this shape? Predict, then check with blocks.
	 Prediction _____ Check _____