

AMERICAN MATH HW
WEEK OF 11NOV TO 15 NOV

Due Date: 11/17 by midnight

Focus for the week: The focus of the HW this week is to get ready for the **quiz on Area and Perimeter of Rectangle on Friday, 11/15**. The HW for this week is meant to be a practice on all the below topics we have covered for the current Unit 3

- Perimeter of Rectangle
- Area of Rectangle
- Find missing side of rectangle when area of rectangle is given
- Find missing side of rectangle when perimeter of rectangle is given
- Real life problems for area and perimeter – cost problems, area of rectangle with a rectangular hole

For additional preparation, review the problems assigned as daily CW starting from 4Nov on IXL quizzes. Make sure you understand – why you got a particular problem incorrect in class, re-do the problem ensuring that you solve it correctly, match your answer with the correct answer provided by IXL.

Pacing guideline: Look at the top right corner of the page for suggested pacing

Monday – 2 pages

Tuesday – 2 pages

Wednesday – 2 pages

SHOW ALL YOUR WORK ON SEPARATE PAGES (journal or goodnotes). I will discuss any questions you have about the review on Thursday and check the answers. Bring your work to class on Thursday.

Note: For additional help or practice, refer to the resources link on Archie.

Name _____

Unit Review

1. For problems 1a–1e, select Yes or No to indicate if a rectangle with the given dimensions would have a perimeter of 50 inches.

1a. length: 25 inches width: 2 inches ☐ Yes ☐ No

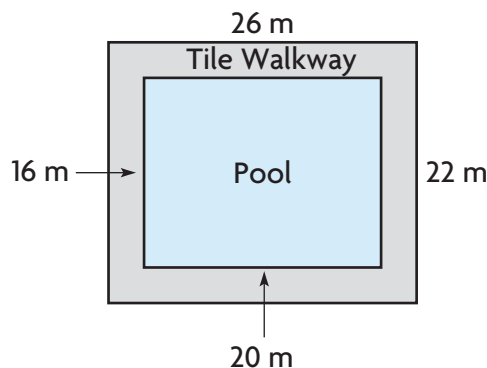
1b. length: 20 inches width: 5 inches ☐ Yes ☐ No

1c. length: 17 inches width: 8 inches ☐ Yes ☐ No

1d. length: 15 inches width: 5 inches ☐ Yes ☐ No

1e. length: 15 inches width: 10 inches ☐ Yes ☐ No

2. The swimming club's indoor pool is in a rectangular building. Marco is laying tile around the rectangular pool.

**Part A**

What is the area of the pool and the area of the pool and the walkway? Show your work.

Part B

How many square meters of tile will Marco need for the walkway? Explain how you found your answer.

3. Match the dimensions of the rectangles in the top row with the correct area or perimeter in the bottom row.

length: 5 cm width: 9 cm	length: 6 cm width: 6 cm	length: 6 cm width: 5 cm	length: 9 cm width: 6 cm
•	•	•	•
•	•	•	•
area = 36 sq cm	perimeter = 22 cm	perimeter = 30 cm	area = 45 sq cm

4. Kyleigh put a large rectangular sticker on her notebook. The height of the sticker measures 18 centimeters. The base is half as long as the height. What area of the notebook does the sticker cover?

_____ square centimeters

5. A rectangular flower garden in Samantha's backyard has 100 feet around its edge. The width of the garden is 20 feet. What is the length of the garden? Use the numbers to write an equation and solve. A number may be used more than once.

10 20 50 30 40 60 100

$$P = (2 \times \ell) + (2 \times w)$$

$$\boxed{} = (2 \times \ell) + (2 \times \boxed{})$$

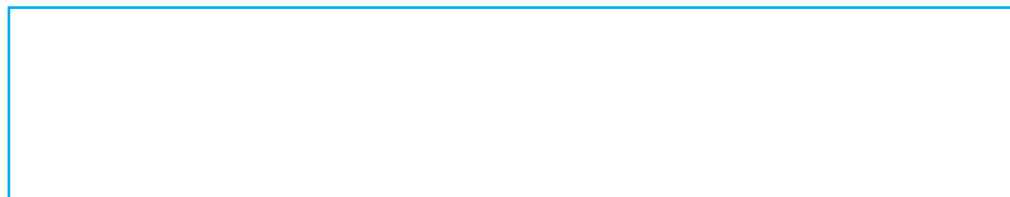
$$\boxed{} = (2 \times \ell) + \boxed{}$$

$$\boxed{} = \boxed{} + 40$$

$$\text{Since } 2 \times \ell = 60, \ell = \boxed{}$$

So, the length of the garden is $\boxed{}$ feet.

6. Mateo drew a rectangle and a square, each with a perimeter of 20 inches. Draw the rectangle and square Mateo could have drawn, and compare the areas. Which has the greater area?

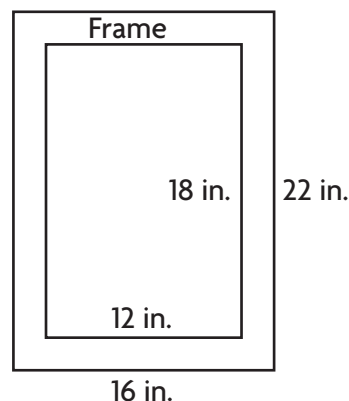


7. Ami and Bert are drawing plans for rectangular vegetable gardens. In Ami's plan, the garden is 13 feet by 10 feet. In Bert's plan, the garden is 12 feet by 12 feet. For problems 7a–7d, select True or False for each statement.

- 7a. The area of Ami's garden is 130 square feet. ☐ True ☐ False
- 7b. The area of Bert's garden is 48 square feet. ☐ True ☐ False
- 7c. Ami's garden has a greater area than Bert's garden. ☐ True ☐ False
- 7d. The area of Bert's garden is 14 square feet greater than Ami's. ☐ True ☐ False

8. A farmer planted corn in a square field. One side of the field measures 32 yards. What is the area of the cornfield? Show your work.

9. Harvey bought a frame in which he put his family's picture.



What is the area of the frame not covered by the picture?

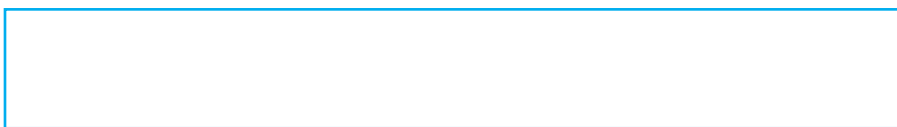
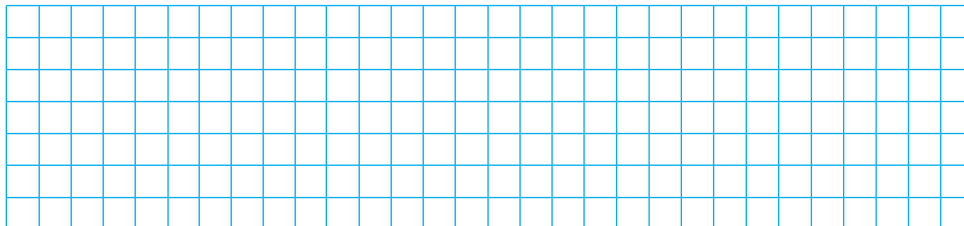
_____ square inches

10. Kelly has 236 feet of fence to use to enclose a rectangular space for her dog. She wants the width to be 23 feet. Draw a rectangle that could be the space for Kelly's dog. Label the length and the width.

11. Anthony wants to make two different rectangular flower beds, each with an area of 24 square feet. He will build a wooden frame around each flower bed. The flower beds will have side lengths that are whole numbers.

Part A

Each unit square on the grid below is 1 square foot. Draw two possible flower beds. Label each with a letter.



Part B

Which of the flower beds will take more wood to frame? Explain how you know.

12. Chad's bedroom floor is 12 feet long and 10 feet wide. He has an area rug on his floor that is 7 feet long and 5 feet wide. Which statements tell how to find the amount of the floor that is not covered by the rug? Mark all that apply.

- ☐ **A** Add 12×10 and 7×5 .
- ☐ **B** Subtract 35 from 12×10 .
- ☐ **C** Subtract 10×5 from 12×7 .
- ☐ **D** Add $12 + 10 + 7 + 5$.
- ☐ **E** Subtract 7×5 from 12×10 .
- ☐ **F** Subtract 12×10 from 7×5 .

Name _____

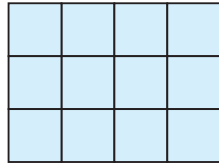
13. A row of plaques covers 120 square feet of space along a wall. If the plaques are 3 feet tall, what length of the wall do they cover?

Thursday

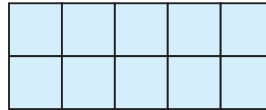
_____ feet

14. Tomas drew two rectangles on grid paper.

Circle the words that make the sentence true.



A



B

Rectangle A has an area that is

less than
the same as
greater than

the area of Rectangle B and a perimeter that is

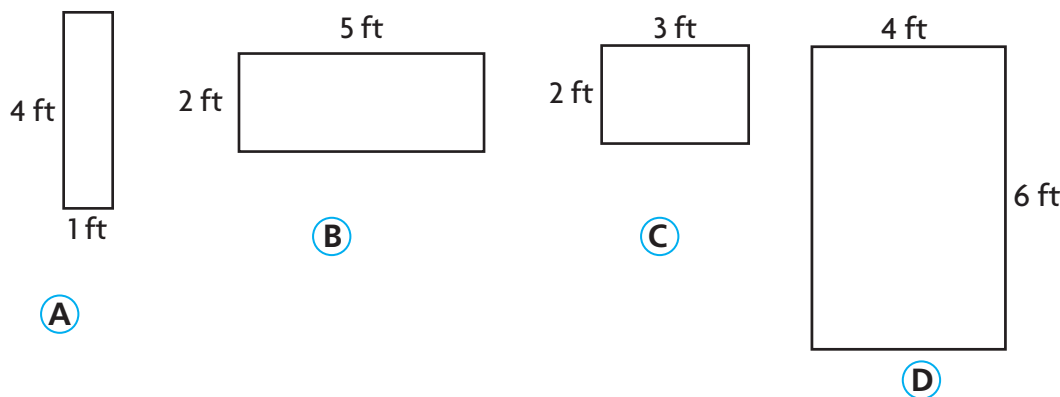
less than
the same as
greater than

the perimeter of Rectangle B.

15. Lorenzo built a rectangular brick patio. He is putting a stone border around the edge of the patio. The width of the patio is 12 feet. The length of the patio is 2 feet longer than the width.

How many feet of stone will Lorenzo need? Explain how you found your answer.

16. Which rectangles have a perimeter of 10 feet? Mark all that apply.

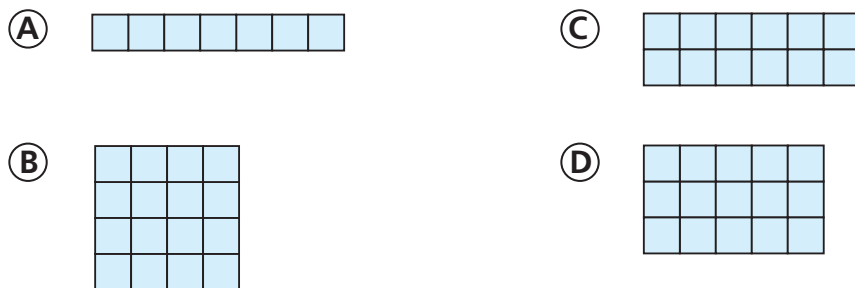


17. A folder is 11 inches long and 8 inches wide. Alyssa places a sticker that is 2 inches long and 1 inch wide on the folder. Choose the words that correctly complete the sentence.

To find the number of square inches of the folder that is NOT covered by the sticker,

add	the	width of the sticker	from	the	width of the sticker	
subtract		area of the sticker			by	area of the sticker
multiply		area of the folder			to	area of the folder

18. Which rectangle has a number of square units for its area equal to the number of units of its perimeter?



19. Mr. Butler posts his students' artwork on a bulletin board.

The width and length of the bulletin board are whole numbers. What could be the dimensions of the bulletin board Mr. Butler uses?



Area = 15 square feet