

HOMEWORK 28

Due Friday 4/26, no later than 8am.

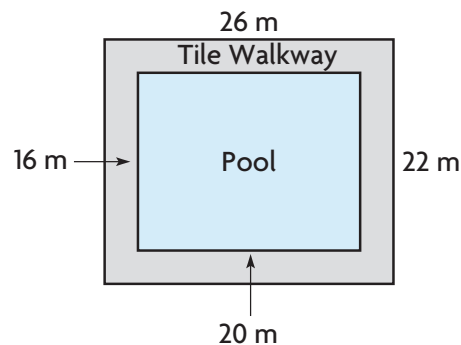
Do 1 page per day!



Name _____

Chapter Review

- For problems 1a–1e, select Yes or No to indicate if a rectangle with the given dimensions would have a perimeter of 50 inches.
 - length: 25 inches width: 2 inches ☐ Yes ☐ No
 - length: 20 inches width: 5 inches ☐ Yes ☐ No
 - length: 17 inches width: 8 inches ☐ Yes ☐ No
 - length: 15 inches width: 5 inches ☐ Yes ☐ No
 - length: 15 inches width: 10 inches ☐ Yes ☐ No
- 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.

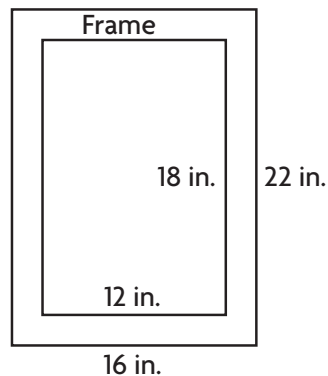
Name _____

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.

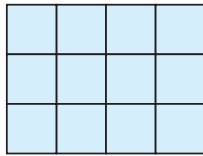
Name _____

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?

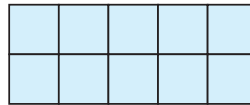
_____ feet

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

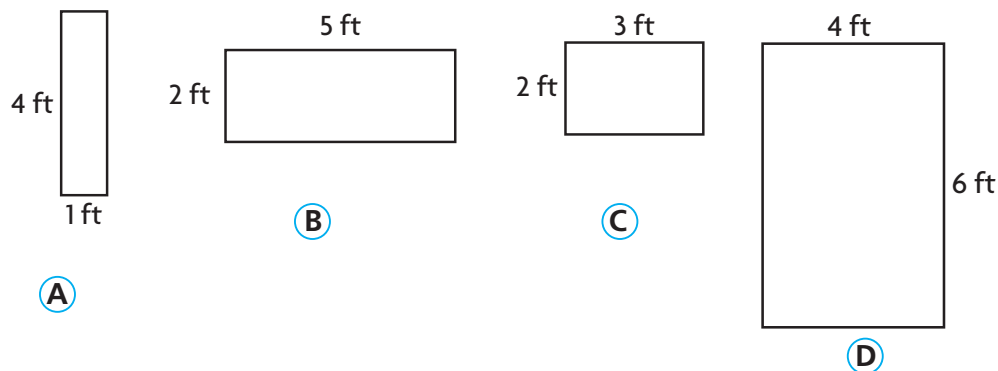
less than
the same as
greater than

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.

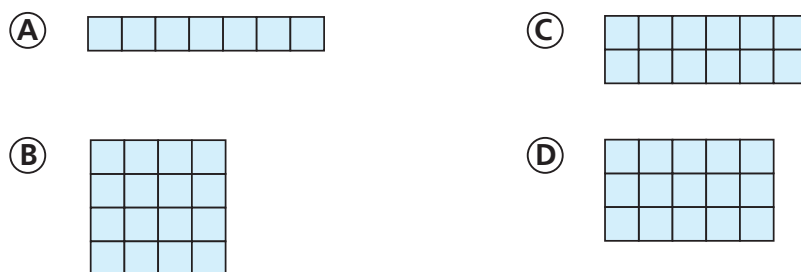


17. A folder is 11 inches long and 8 inches wide. Alyssa places a sticker that is 2 inches long and 1 inch wide on the folder. Choose the words that correctly complete the sentence.

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

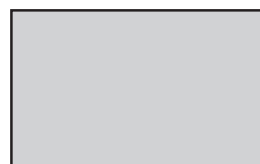
| | | | | | | |
|----------|-----|----------------------|------|-----|----------------------|---------------------|
| add | the | width of the sticker | from | the | width of the sticker | |
| subtract | | area of the sticker | | | by | area of the sticker |
| multiply | | area of the folder | | | to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