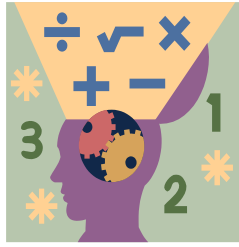


Name: _____ Section: _____



Homework

Greetings Scholar and Parents. Hope you are all comfortably settled into the new year. This week we will be starting on **Chapter 13**. Remember to check **CINEMATH** for reviews! You will have no test this week...

Extra Practice – OPTIONAL THIS WEEK

Additional practice for the daily lessons is available on IXL. To access extra practice, please have your child login into IXL. Under the **“FROM YOUR TEACHER”** section, scholars will find Teacher Assigned Lessons. From there, you will see a list of lessons reinforcing the daily skills.

- [Perimeter with decimal side lengths](#)
- [Area of squares and rectangles](#)
- [Perimeter with fractional side lengths](#)
- [Area of rectangles with fractions and mixed numbers](#)
- [Multiply with mixed numbers using area models](#)
- [Area of rectangles with fractions and mixed numbers](#)

Notes

Completed homework packets should be uploaded or turned in on Sunday, December 22nd. Students must prove and show all their work in the provide space. Scholars should use a separate sheet of paper if they need additional space. Failure to show work or packets submitted after the due date will result in a lower grade. If a scholar struggles with a lesson, they can review the daily lesson on HMH. Please feel free to contact me with any questions or concerns at peter.vanegas@archimedean.org.

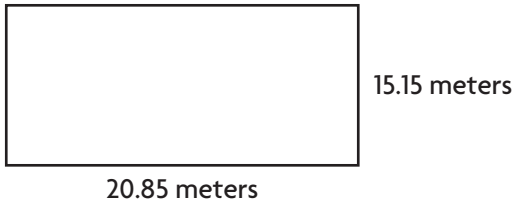
<u>Monday</u>	December 16 th	– 13.1
<u>Tuesday</u>	December 17 th	– 13.2
<u>Wednesday</u>	December 18 th	– 13.3
<u>Thursday</u>	December 19 th	– Nothing new!
<u>Friday</u>	December 20 th	– TPD – Enjoy your break!!!

Find Perimeter and Area of Rectangles with Decimal Side Lengths

Go Online

Interactive Examples

1. Find the perimeter of the rectangle.

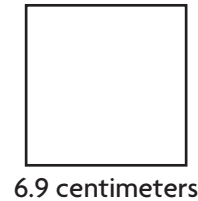


$$P = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$$

$$P = \underline{\hspace{1cm}}$$

The perimeter is $\underline{\hspace{1cm}}$ meters.

2. Find the area of the square.



$$A = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

$$A = \underline{\hspace{1cm}}$$

The area is $\underline{\hspace{1cm}}$ square centimeters.

3. A rectangle has a perimeter of 68 inches. If the width of the rectangle is 10.25 inches, what is the length of the rectangle? Explain how you know.

4. A square has a perimeter of 40.96 centimeters. What is the length of one side of the square?

Problem Solving

5. Lea wants to put a fence around her garden. Her garden measures 13.1 meters by 15.7 meters. She has 50 meters of fencing. How many more meters of fencing does Lea need to put a fence around her garden?

6. Grace wants to put a new layer of soil on her 12.8 meters by 16.2 meters garden. She finds the area of her garden so she knows how much soil to buy. If one bag of soil covers 20 square meters, how many bags of soil will Grace need? Explain.

Lesson Check

Fill in the bubble completely to show your answer.

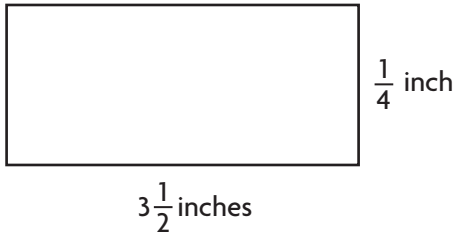
7. A soccer field has a length of 91.44 meters and a width of 54.9 meters. Which equation can you use to find the area of the soccer field?
- (A) $A = 91.44 \times 54.9$
- (B) $A = 91.44 + 54.9 + 91.44 + 54.9$
- (C) $A = 91.44 + 54.9$
- (D) $A = 91.44 \times 4$
8. A baseball diamond is a square with a perimeter of 109.7 meters. What is the length of one side?
- (A) 12.73 meters
- (B) 27.425 meters
- (C) 54.85 meters
- (D) 90.7 meters
9. Zoey wants to cover her bedroom floor with carpet squares. Each square has an area of 1 square foot. Her bedroom measures 13.5 feet by 14 feet. How many carpet squares does Zoey need?
- (A) 55
- (B) 162
- (C) 189
- (D) 378
10. Edward wants to put a string of lights around a rectangular window that is 1.3 meters wide and 0.5 meter high. How long will the string of lights need to be to go around the window?
- (A) 0.65 meters
- (B) 1.8 meters
- (C) 3.6 meters
- (D) 6.5 meters

Find Perimeter and Area of Rectangles with Fractional Side Lengths

Go Online

Interactive Examples

1. Find the area of the rectangle.

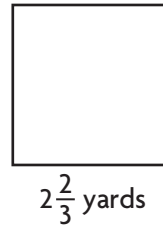


$$A = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

$$A = \underline{\hspace{1cm}}$$

The area is $\underline{\hspace{1cm}}$ square inch.

2. Find the perimeter of the square.



$$P = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

$$P = \underline{\hspace{1cm}}$$

The perimeter is $\underline{\hspace{1cm}}$ yards.

3. A rectangle has a perimeter of 12 inches. If the width of the rectangle is $4\frac{4}{5}$ inches, what is the length of the rectangle? Explain how you know.

4. A square has a perimeter of $\frac{4}{3}$ feet. What is the length of each side of the square? Explain how you know.

Problem Solving

5. Aurelio wants to put a border around his flower bed. The flower bed measures $2\frac{1}{5}$ meters by $3\frac{1}{4}$ meters. He has 10 meters of border. How much more border does he need to put a border around his flower bed?

6. Aurelio wants to put a new layer of mulch on his flower bed that measures $2\frac{1}{5}$ meters by $3\frac{1}{4}$ meters. He finds the area of the flower bed so he knows how much mulch to buy. If one bag of mulch covers 2 square meters, how many bags of mulch will Aurelio need? Explain.

Lesson Check

Fill in the bubble completely to show your answer.

7. Chantal buys two small rugs for her kitchen. One rug measures $3\frac{1}{2}$ feet by $5\frac{1}{4}$ feet. The other rug measures $4\frac{1}{12}$ feet by $6\frac{1}{3}$ feet. What is the area of the part of the kitchen the two rugs will cover?
- (A) $44\frac{17}{72}$ square feet
(B) $28\frac{19}{24}$ square feet
(C) $57\frac{14}{24}$ square feet
(D) $9\frac{15}{72}$ square feet
8. Isaac is painting a wall that is $9\frac{1}{4}$ feet \times $18\frac{3}{4}$ feet. So far, he has painted a part of the wall that is a rectangle with area $39\frac{7}{16}$ square feet. What is the area of the part of the wall that Isaac has left to paint?
- (A) 190 square feet
(B) 134 square feet
(C) 22 square feet
(D) 151 square feet
9. A soccer field has a length of $98\frac{1}{12}$ yards and a width of $55\frac{7}{8}$ yards. Which equation can you use to find the perimeter of the soccer field?
- (A) $P = 98\frac{1}{12} \times 55\frac{7}{8}$
(B) $P = 98\frac{1}{12} + 55\frac{7}{8} + 98\frac{1}{12} + 55\frac{7}{8}$
(C) $P = 98\frac{1}{12} + 55\frac{7}{8}$
(D) $P = 55\frac{7}{8} \times 4$
10. A square classroom has a perimeter of 30 yards. What is the length of each side of the classroom?
- (A) 15 yards
(B) 20 yards
(C) $3\frac{3}{4}$ yards
(D) $7\frac{1}{2}$ yards

Explore Area and Mixed Numbers

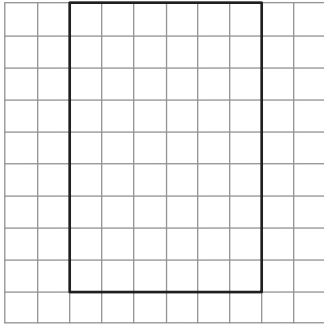
Go Online

Interactive Examples

Use the grid to find the area.

1. Let each square represent
- $\frac{1}{4}$
- unit by
- $\frac{1}{4}$
- unit.

$$2\frac{1}{4} \times 1\frac{1}{2} = 3\frac{3}{8}$$



54 squares cover the diagram.

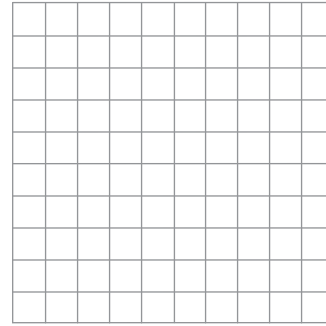
Each square is $\frac{1}{16}$ square unit.

The area of the diagram is

$$54 \times \frac{1}{16} = \frac{54}{16} = 3\frac{6}{18} \text{ square units.}$$

2. Let each square represent
- $\frac{1}{3}$
- unit by
- $\frac{1}{3}$
- unit.

$$1\frac{2}{3} \times 2\frac{1}{3} = \underline{\hspace{2cm}}$$



The area is _____ square units.

Use an area model to solve.

3. $1\frac{3}{4} \times 2\frac{1}{2}$

4. $2\frac{2}{3} \times 1\frac{1}{3}$

5. $3\frac{3}{4} \times 2\frac{1}{2}$

Problem Solving

6. Ava's bedroom rug is
- $2\frac{3}{4}$
- feet long and
- $2\frac{1}{2}$
- feet wide. What is the area of the rug?

7. A painting is
- $2\frac{2}{3}$
- feet long and
- $1\frac{1}{2}$
- feet high. What is the area of the painting?

Lesson Check

9. The base of a fountain is rectangular. Its dimensions are $1\frac{2}{3}$ feet by $2\frac{2}{3}$ feet. What is the area of the base of the fountain?
10. DeAndre's living room floor is covered with carpet tiles. Each tile is $1\frac{1}{2}$ feet long by $2\frac{3}{5}$ feet wide. What is the area of one tile?
