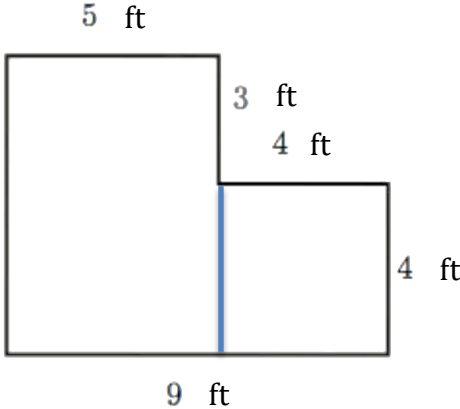


Solving Problems with Measurement

Overarching Student Learning Goals In this unit, your child will work to build an understanding of the following:	Resources/Tasks to support your child at home.
Solve measurement word problems (time & money) involving the four operations. <i>Example problem involving money: Trisha spent \$10 on food at the basketball game. She bought hot dogs that cost \$2.50 each. How many hot dogs did Trisha purchase? Answer: 4 hot dogs</i> 	• Give your child a set money amount and have them represent that money with coins/money. Encourage them to find more than one way to create that amount. • Have your child track the amount of time it takes to get from one location to the other (elapsed time). • Khan Academy: Converting Units of Time https://goo.gl/CiLNmC • Khan Academy: Time Problem - Travel Time https://goo.gl/hiQPD5 • Khan Academy: Word Problem - Making Change https://goo.gl/ZtDkq9 • Khan Academy: Currency Conversion - Word Problems https://goo.gl/4D1qKj
Find the area and perimeter of (rectangles and rectilinear) figures and use this to solve problems. <i>Example: Tom wants to place a fence around his pool. How many feet of fencing does he need?</i> <i>The missing side length is 7ft so: $5+7+3+4+4+9=32$ feet.</i> <i>Example: Tom wants to cover his pool with plastic covering. How many square feet of plastic does he need?</i> <i>I decomposed the figure into two rectangles to find the area of each and then add them together. $(5 \times 7) + (4 \times 4) = 51$ square feet.</i> 	• Encourage your child to find area and perimeter at least 2 different ways. • With rectilinear figures (like the one shown in the example) have them decompose the shape different ways to find the easiest way to decompose it to find the area. • LearnZillion: Find the Area of Rectangles Using the Standard Formula https://goo.gl/SN8pUY • Khan Academy: Area and Perimeter Word Problem https://goo.gl/FbhYow • Interactive Game: Party Designer https://goo.gl/rWtTrA

For more information on the learning goals and your child's progress, please contact your child's teacher.

Grade 4

Find the missing side of a figure when given the area. Students find the missing length of the side of a rectangle, after given the area and another side length. Example: <i>The area of the rug is 24 square feet. The length of the rug is 6 feet. What is the width of the rug?</i> ? A = 24 sq ft 6 feet Students use their understanding of related facts to find the missing side length. $? \times 6 = 24$ $24 \div 6 = 4$	• Give your child the area and a side length of a rectangle. Then encourage them to draw a model to find the missing side length. • Encourage your child to show the steps as equations when determining the missing side length. • Khan Academy: Find Missing Side when Given Area https://goo.gl/gJbdpv • Learnzillion: Given the Area, Find Missing Side Lengths of a Rectangle https://goo.gl/caFxbN
Find the missing side length of a figure when given the perimeter and additional side(s). Students find the missing length of the side of a rectangle, after given the area and another side length. Example: <i>The perimeter of the rug is 24 feet. The length of the rug is 8 feet. What is the width of the rug?</i> ? P = 24 feet 8 feet $2L + 2W = 24$ $2(8) + 2W = 24$ $16 + 2W = 24$ $24 - 16 = 8$ $2W = 8$ $W = 4$	• Give your child the perimeter and a side length of a rectangle. Then encourage them to draw a model to find the missing side length. • Encourage your child to show the steps as equations when determining the missing side length. • LearnZillion: Find Missing Side Lengths Using the Formula for Perimeter https://goo.gl/mVBf75 • Khan Academy: Finding Perimeter when a Side Length is Missing https://goo.gl/o3eto2