

Grade: 5

Subject: Math

Assessment Name: IW5 Perimeter and Area Puzzles

Standard(s) MA C2 Find the areas of triangles and
parallelograms

Created by Bridges

School: Earl Boyles-Kim Graham, Brian Felker

NAME _____

DATE _____

Set C1 ★ Independent Worksheet 5



INDEPENDENT WORKSHEET

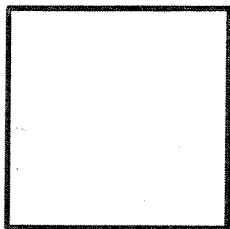
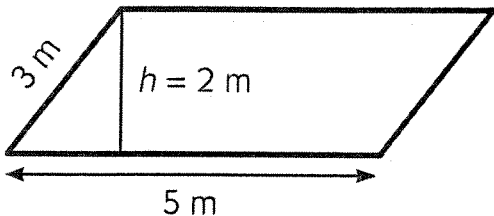
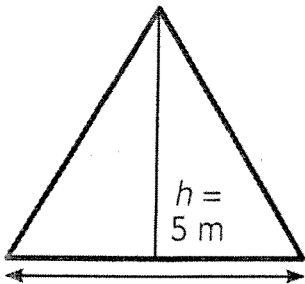
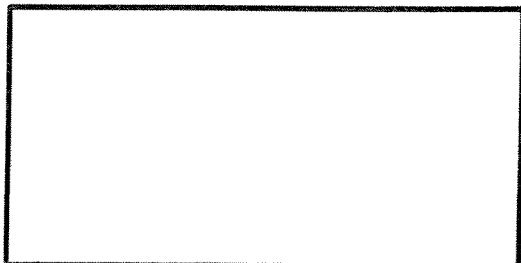
Perimeter & Area Puzzles

To find the perimeter of any triangle or quadrilateral, add the side lengths. For rectangles, you can use the formula 2 times length plus 2 times width, or $2l + 2w$.

The formula for finding the area of all parallelograms, including rectangles is base \times height, or bh .

The formula for finding the area of all triangles is $\frac{1}{2}$ base \times height, or $\frac{1}{2}bh$.

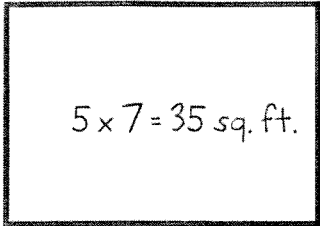
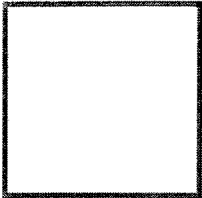
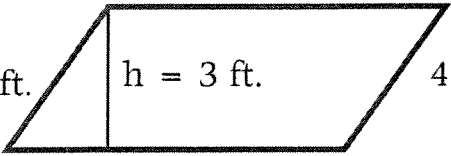
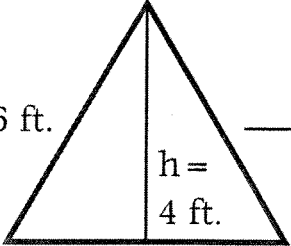
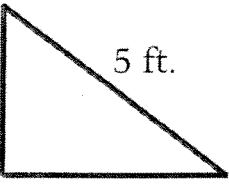
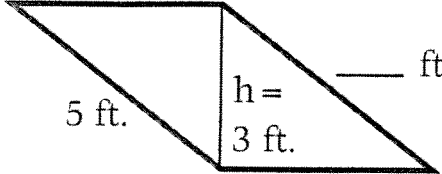
1 Use the formulas above to find the perimeter and area of each figure on this page. Show your work.

<p>a</p>  <p>3 m</p> <p>Perimeter = _____ meters</p> <p>Area = _____ square meters</p>	<p>b</p>  <p>3 m</p> <p>$h = 2$ m</p> <p>5 m</p> <p>Perimeter = _____ meters</p> <p>Area = _____ square meters</p>
<p>c</p>  <p>$h = 5$ m</p> <p>6 m</p> <p>Perimeter = _____ meters</p> <p>Area = _____ square meters</p>	<p>d</p>  <p>4 m</p> <p>8 m</p> <p>Perimeter = _____ meters</p> <p>Area = _____ square meters</p>

(Continued on back.)

Independent Worksheet 5 Perimeter & Area Puzzles (cont.)

2 Fill in the blanks to label each of the shapes below with its dimensions, perimeter, and/or area. Use the information in each drawing to help. Show your work.

<p>example Rectangle</p> <div style="text-align: center;"> $\underline{7}$ ft.  $5 \times 7 = 35 \text{ sq. ft.}$ $\underline{7}$ ft. </div> <p>Perimeter = 24 feet Area = <u>35</u> square feet</p>	<p>a</p> <div style="text-align: center;"> $\underline{\quad}$ ft.  4 ft. $\underline{\quad}$ ft. $\underline{\quad}$ ft. </div> <p>Perimeter = 16 feet Area = <u> </u> square feet</p>
<p>b</p> <div style="text-align: center;"> $\underline{\quad}$ ft.  $h = 3 \text{ ft.}$ 4 ft. $\underline{\quad}$ ft. </div> <p>Perimeter = <u> </u> feet Area = <u> </u> square feet</p>	<p>c Triangle</p> <div style="text-align: center;">  6 ft. $\underline{\quad}$ ft. $h = 4 \text{ ft.}$ $\underline{\quad}$ ft. </div> <p>Perimeter = <u> </u> feet Area = <u> </u> square feet</p>
<p>d</p> <div style="text-align: center;">  3 ft. 5 ft. 4 ft. </div> <p>Perimeter = <u> </u> feet Area = <u> </u> square feet</p>	<p>e</p> <div style="text-align: center;"> $\underline{\quad}$ ft.  5 ft. $h = 3 \text{ ft.}$ $\underline{\quad}$ ft. 4 ft. </div> <p>Perimeter = <u> </u> feet Area = <u> </u> square feet</p>