Name _____ Date _____

1.5 Practice A

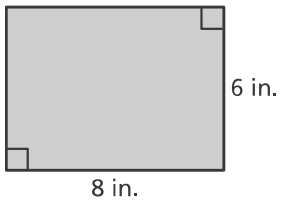
Evaluate the formula for the given value(s) of the variable(s).

1. $M = 220 - a$; $a = 14$

2. $A = \ell \times w$; $\ell = 12$ in. and $w = 9$ in.

3. $V = \ell wh$; $\ell = 8$, $w = 5$, and $h = 4$

Use a formula to find the area of the figure.

4.


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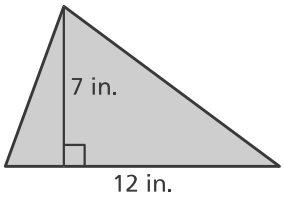

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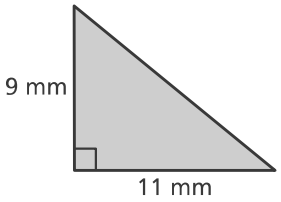

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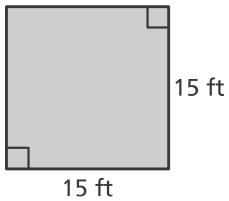

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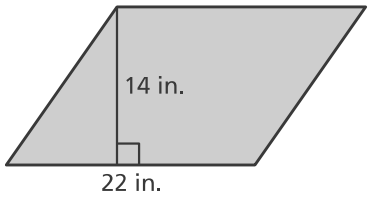

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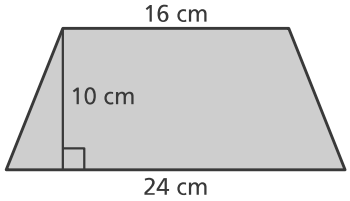

10. The formula $M = 220 - a$ gives a person's maximum heart rate M, where a is the person's age in years. What is the maximum heart rate of a person who is 61 years old?

11. A person's earned run average is the average number of earned runs given up per nine innings. The formula below shows the earned run average, where R is the number of earned runs and I is the number of innings pitched. What is the earned run average of a pitcher who gave up 40 earned runs in 80 innings?

$$\text{Earned Run Average} = \frac{9R}{I}$$

12. The area of a rectangle is 481 square inches. The length is 37 inches. Explain how you can find the width.

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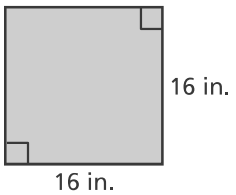
Name_____ Date_____

1.5 Practice B

Use a formula to find the area of the figure.

1.



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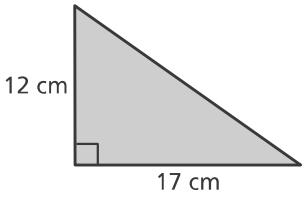

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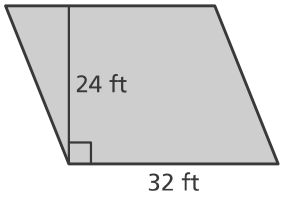

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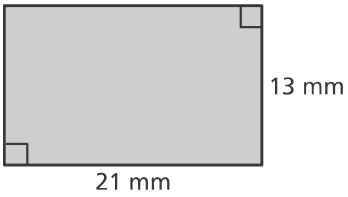

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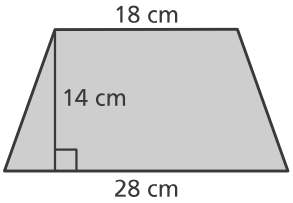

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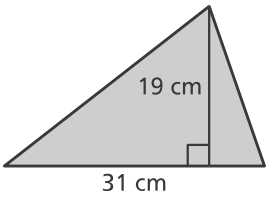
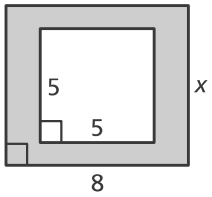


Write a formula for the area of the shaded region in terms of *x*.

7.



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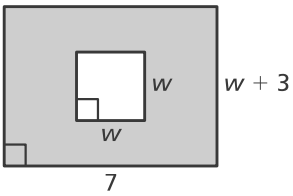

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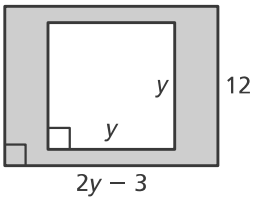

10. The formula $M = 220 - a$ gives a person's maximum heart rate M, where a is the person's age in years. What is the maximum heart rate of a person who is 12 years old?

11. Find three possible sets of dimensions for a parallelogram whose area is 120 square feet.

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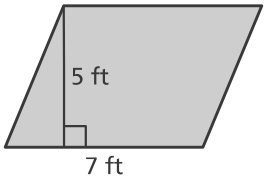
1.5 Puzzle Time

Where Does A Penguin Store All Of Its Money And Other Valuables?

Write the letter of each answer in the box containing the exercise number.

Use a formula to find the area of the figure.

1.



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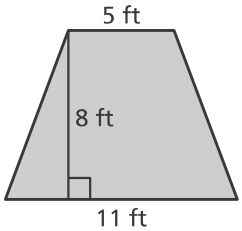

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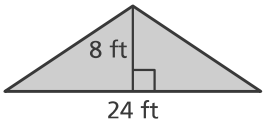

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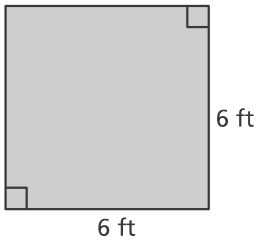

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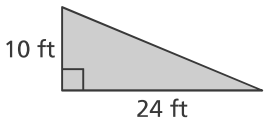

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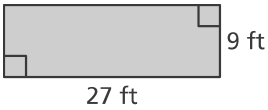


Answers for Exercises 1–6

N. 243 ft^2	**T.** 240 ft^2
A. 35 ft^2	**O.** 96 ft^2
E. 121.5 ft^2	**K.** 64 ft^2
R. 17.5 ft^2	**W.** 36 ft^2
S. 192 ft^2	**M.** 18 ft^2
B. 120 ft^2	**F.** 220 ft^2

Answers for Exercises 7–9

S. $12x - 9$ square units

I. $16 - 5x$ square units

D. $x^2 - 30x - 20$ square units

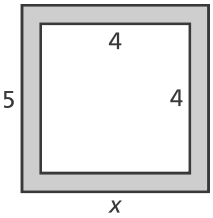
N. $5x - 16$ square units

C. $9 - 12x$ square units

A. $30x - 20 - x^2$ square units

Find the area of the shaded region in terms of *x*.

7.



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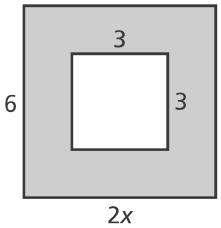

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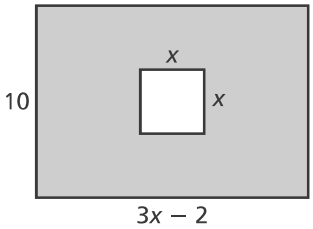

9		8	6	3	4		5	1	7	2

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