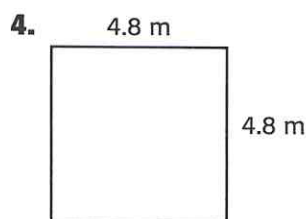
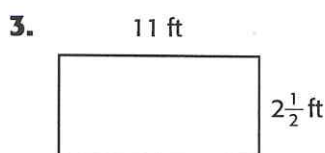
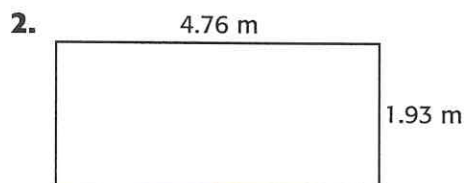
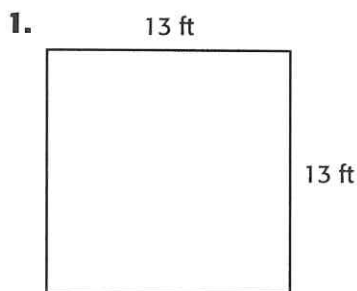
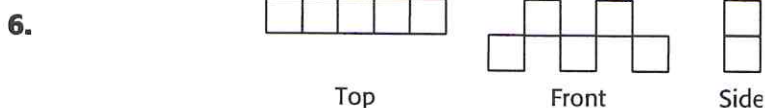


Homework Practice**5MG1.4***Perimeter***Find the perimeter of each square or rectangle.**

5. Neil made a wooden, rectangular picture frame that is 14 inches long and 10 inches wide. If he charges \$2.50 per foot, how much will he sell this frame for?
- _____

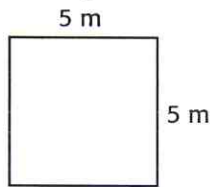
Spiral Review

Draw a three-dimensional figure whose top, front, and side views are shown. (Lesson 10-8)



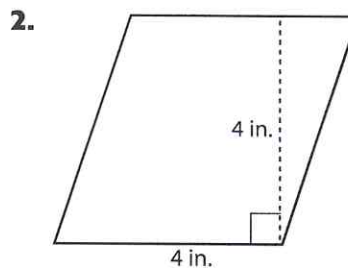
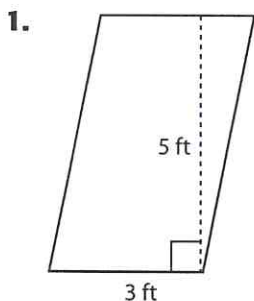
Problem-Solving Practice**5MG1.4***Perimeter***Solve.**

1. Hannah wants to create a fenced enclosure for her dog. To figure out how much fencing she needs, Hannah made a drawing of the enclosure.

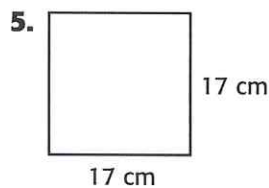
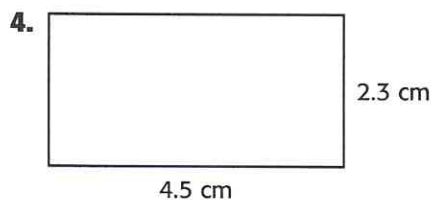


How much fencing will she need?

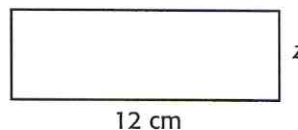
2. Johanna has a garden that is in the shape of a regular pentagon. Each side of the pentagon is 7 ft long. She decides to place a small, decorative wood fence around the perimeter. The fencing is sold in boxes of 5 pieces. Each piece has a length of 18 in. How many boxes of fencing will Johanna need to buy?
- _____
3. A driveway is 40 ft long and 14 ft wide. What is the perimeter of the driveway?
- _____
4. Tara has a rectangular garden that is 10 ft long and 4 ft wide. She wants to put a small fence around it. If fencing costs \$1.50 per ft, how much will the fence cost?
- _____
5. Vincent is designing a rectangular garden. The outside of the garden will measure 12 ft long and 5 ft wide. He plans to use tiles around the inside edge of the border. The tiles are squares, and each side measures 1 ft. After placing the tiles, Vincent will put a small fence around the inside, against the tiles. How many feet of fencing does he need?
- _____

Homework Practice**5MG1.1, 5MG1.4***Area of Parallelograms***Find the area of each parallelogram.**

3. What is the area of a parallelogram with a base of 20 inches and a height of 8.5 inches?
- _____

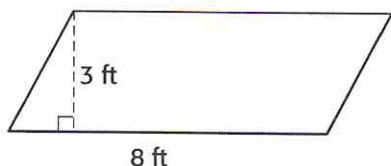
Spiral Review**Find the perimeter of each square or rectangle. (Lesson 11-1)**

6. What is the measurement of z if the perimeter of the rectangle is 30 cm?
- _____



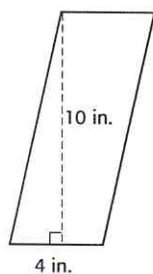
Problem-Solving Practice**5MG1.1, 5MG1.4***Area of Parallelograms***Solve.**

1. Tina is making a bulletin board in the shape of a parallelogram. She drew a diagram of the board. What is the area of Tina's bulletin board?



2. Sheri is designing a poster for geography class. She needs 7 parallelograms, one for each continent. If each parallelogram has a base of 10 in. and is 8 in. high, what is the total area of the 7 parallelograms?

3. The after-school Explorers Club has designed its club sign in the shape of a parallelogram. The outline of the sign is shown in the diagram below. What is the area of the sign?



4. For a science project, Kevin made 9 parallelograms. On each one, he will write facts about an animal. Each parallelogram has a base of 12 in. and is 6 in. high. About what size poster board should he buy so all 9 parallelograms will fit with some space around each? Assume the parallelograms are not rectangles and write your answer in square feet.

5. Rachel found the area of a parallelogram with a height of 6 in. and a base of 9 in. She draws an identical parallelogram side-by-side to it. What is the total area of the 2 parallelograms?

6. Refer back to exercise 4. Kevin found a poster board on sale. It measures 1.5 ft by 2 ft. Will the 9 parallelograms fit on it?

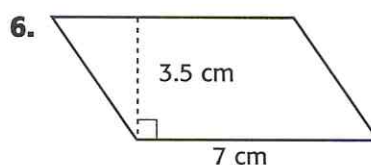
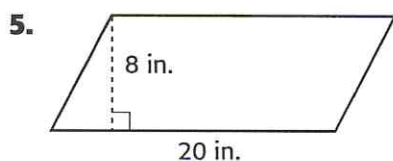
Homework Practice**5MR2.3, 5MG1.4***Problem-Solving Strategy***Solve. Use the *make a model* strategy.**

1. Nan and Sato are designing a coffee table using 4 inch tiles. Nan uses 30 tiles and Sato uses half as many. How many total tiles did they use? If the area of the table is 36 inches by 26 inches, will they have enough tiles for the table? If not, how many more will they need?

2. The Jones family is landscaping their yard. If they have a yard that is 160 square feet, and one side is 10 feet long, what is the length of the other side of the garden? If they plant 3 bushes that need to be 3 feet apart and 3 feet away from the fence around the yard, will they have the space?

3. Derek is organizing a shelf in his closet. The shelf is rectangular and measures 18 inches long and 14 inches wide. Each box to be placed on the shelf is 9 inches long and 7 inches wide. How many boxes can he fit in one layer on the shelf?

4. Roberto wants to build a brick wall. Each brick layer is 3 inches thick, and the wall will be 18 inches tall. How many layers will it have?

Spiral Review**Find the area of each parallelogram. (Lesson 11-2)**

11-4

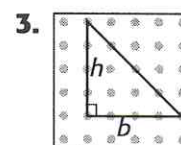
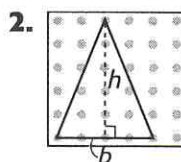
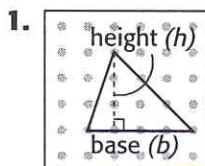
Name _____ Date _____

Homework Practice

5MG1.1, 5MG1.4

Area of Triangles

Find the area of each triangle.



4. What is the area of a triangular table that has a base of 3 feet and a height of 2 feet?

5. Etsuko made a wooden, triangular picture frame that has a base of 15 cm and a height of 25 cm. What is the area?

Spiral Review

Solve. Use the *make a model* strategy. (Lesson 11-3)

6. Kendra's little sister is making a pyramid out of wooden blocks. The bottom layer has 7 blocks. There is one less block in each layer, and there are 7 total layers in the pyramid. How many blocks does Kendra's sister use in all?

7. Vito folded a piece of construction paper in half 5 times. Then he cut a hole through all the layers. How many holes will there be when he unfolds the paper?

Problem-Solving Practice**5MG1.1, 5MG1.4***Area of Triangles***Solve.**

1. Oliver divided a parallelogram with an area of 28 in^2 into two identical triangles. What is the area of each triangle?

2. Aleta and her twin brother will have a birthday party. She baked a cake that measured 10 in. by 14 in. She divided it into two equal triangles. What was the area of each triangle?

3. Marian and her sister planted a rectangular vegetable garden that was 18 ft long and 20 ft wide. Her sister agreed to take care of half of the garden in exchange for half the vegetables. They divided the rectangle diagonally, forming two identical triangles. What is the area of each triangle?

4. Antonia has just enough paint to paint a 28 in^2 area. If she is painting a triangle design that has a base of 8 in. and a height of 6 in., will she have enough paint? Explain your answer.

5. Al is using a tent that has straight walls. It has support ropes that stretch from the top of the side wall to a peg in the ground. The tent is 6 ft tall. The triangle formed by the side of the tent, the rope, and the ground has an area of 12 ft^2 . How far is the peg from the bottom of the tent?

6. Mindy likes to sit on the top row of bleachers at the football games. The end of the bleachers form a triangle with an area of 112 ft^2 . The bottom row of the bleachers is 14 ft from the back of the bleachers. How high above the ground is Mindy sitting?

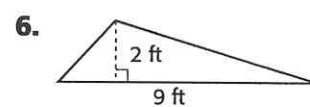
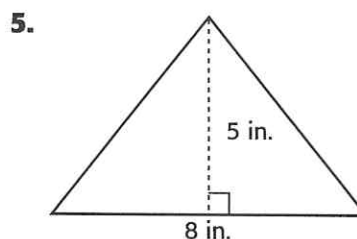
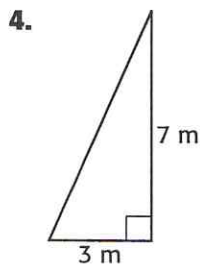
Homework Practice**5MR2.3, 5MG1.4***Problem-Solving Investigation***Use any strategy shown below to solve. Tell what strategy you used.**

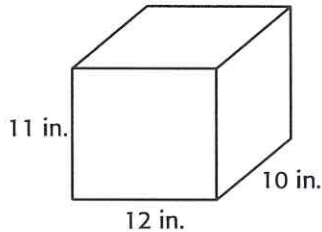
- Make a model • Draw a diagram • Look for a pattern

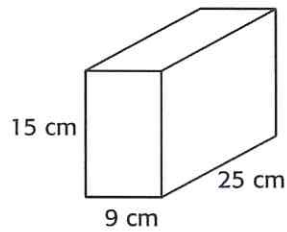
1. The Humane Society is building new cages for their dogs and cats. They have 2 crews of workers building them. There are 28 dogs and 34 cats. All the animals are kept separate. The first crew can build a cage in 1 hour and the second crew, which is smaller, takes 2 hours to build a cage. How many hours will it take to build the cages using both crews if they do not take a break?
- _____

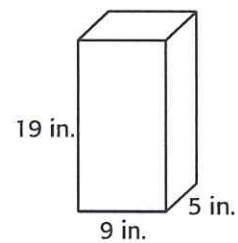
2. A coach needs to inform his 30 players that practice is cancelled. He calls the first player and tells him to call 2 more of his teammates and tell each of them to call two more teammates and so on until everyone is informed. How many players make phone calls?
- _____

3. Marge needs to bake 8 dozen cookies for a bake sale. For each batch of cookies she needs $4\frac{1}{2}$ cups of flour. Each batch makes 2 dozen cookies. How much flour does she need?
- _____

Spiral Review**Find the area of each triangle. (Lesson 11-4)**

Homework Practice**5MG1.3, 5MG1.4***Volume of Rectangular Prisms***Find the volume of each prism.****1.**

2.

3.

- 4.** What is the volume of a rectangular box that has a base of 50 in^2 and a height of 12 inches?

- 5.** Bernice made a rectangular wooden tool box that has a base of 50 cm^2 and a height of 35 cm. What is the volume?

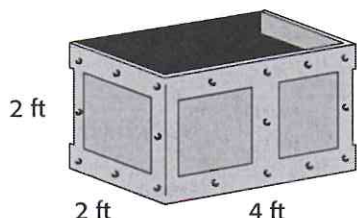
Spiral Review**Use any strategy to solve. (Lesson 11-5)**

- 6.** Ali has a loaf of bread that he needs to slice for his family's dinner. How many cuts does he need to make if he needs 6 equal-size slices of bread?

- 7.** Maggie's older sister is repaying her student loans. Her loans, including interest, total \$9,985. How much are her monthly payments if she plans to repay the loans in 8 years?

Problem-Solving Practice**5MG1.3, 5MG1.4***Volume of Rectangular Prisms***Solve.**

1. Find the volume of the chest.



2. How many cubic inches are in a cubic foot?

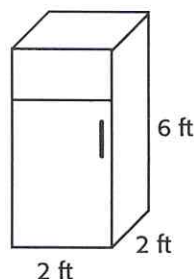
How many cubic feet are in a cubic yard?

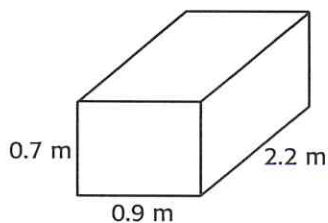
3. The Donaldson's swimming pool measures 15 m long, 8 m wide, and 3 m deep. How many cubic meters of water will the pool hold?

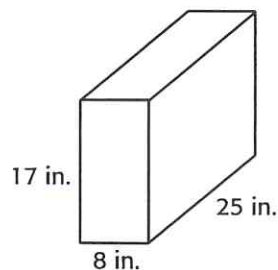
4. Myra is baking a cake in a pan that measures 9 in. by 13 in. by 2 in. How many cubic inches of cake will the pan hold?

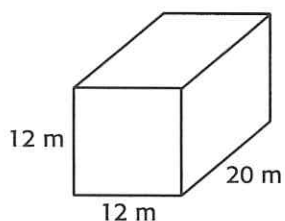
5. To save money, a local shipping company wants to purchase packing peanuts in bulk. The plant manager built a storage container that is 4 yd long, 10 yd wide, and 2 yd tall to store the peanuts. If the manager purchases bags that contain
- 7 ft^2
- of peanuts, how many bags of peanuts will it take to fill the container?

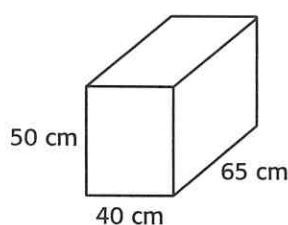
6. Paul is shopping for a refrigerator. He needs to compare the sizes and volumes to decide which refrigerator to buy. He needs a refrigerator with the dimensions shown below in order to fit in his kitchen. Find the volume of the refrigerator.



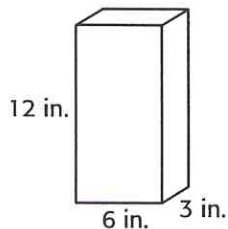
Homework Practice**5MG1.2***Surface Area of Rectangular Prisms***Find the surface area of each rectangular prism.****1.**

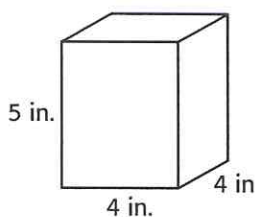
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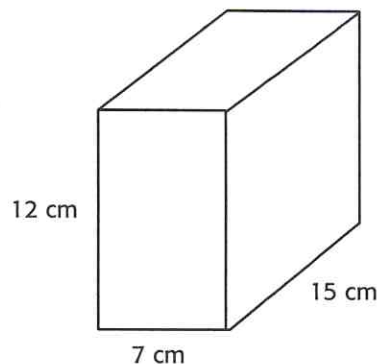
3.

4.

- 5.** Alejandra wants to find the surface area of her aquarium. It does not have a top, and it measures 30 inches long by 20 inches high by 14 inches wide. What is the surface area?

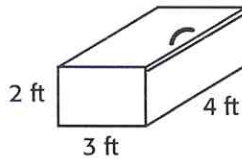
Spiral Review**Find the volume of each prism. (Lesson 11-6)****6.**

7.

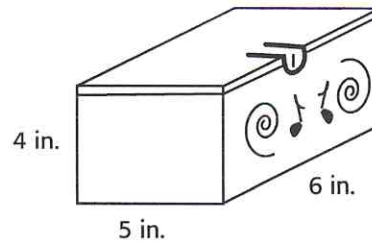
8.

Problem-Solving Practice**5MG1.2***Surface Area of Rectangular Prisms***Solve.**

1. Dylan has a toy box he wants to paint. He needs to find the surface area of the box in order to determine how much paint to buy. What is the surface area of the toy box?



2. Julia has a music box that she wants to cover with fabric. How many square inches of fabric will she need to cover the music box?



3. Jose is moving to a new house and has several packing boxes that are 2 ft by 2 ft by 3 ft. What is the surface area of each box?

4. Lenny builds kitchen cabinets that measure 3 ft tall, 1.5 ft long, and 2 ft deep. What is the surface area of each cabinet?

5. Lenny installs one of his kitchen cabinets in a corner, attached to the ceiling. What is the surface area of the exposed faces?

6. Lenny installs two of his cabinets, side-by-side on a wall, attached to the ceiling. What is the surface area of the exposed faces?
