Composite Figures (pp. 1 of 4)
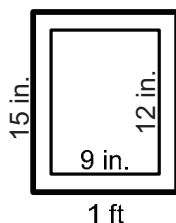
For each problem, shade the area you need to find in green and shade the area you need to remove in red.
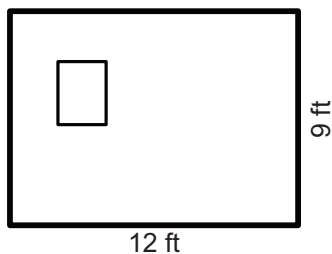
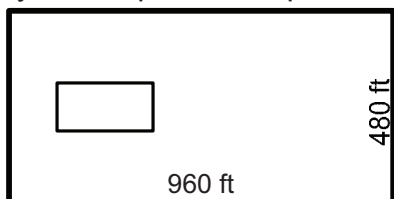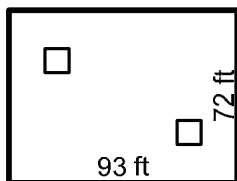|	
1. Cheryl mounts a rectangular shaped picture in the center of a rectangular board according to the diagram below. How many square inches of the board are not covered by the picture?	a) Use a written description in conjunction with math symbols to describe how to solve the problem.
	b) Find the indicated area.
2. Mr. Garcia is going to paint a mural on one wall in his son's room. There is a rectangular shaped window that is 24 inches wide and 36 inches high on the wall. How many square feet of the wall will be painted?	a) Use a written description in conjunction with math symbols to describe how to solve the problem.
	b) Find the indicated area.
3. Mr. Callaway is a farmer. He recently rented a new field and needs to calculate its area in order to make plans for planting a crop next season. The field is rectangular, but there is a small rectangular area inside of the field that is fenced off for an oil pump. The fenced off area inside the field is 240 feet by 120 feet. How many square feet of the field will Mr. Callaway use to plant a crop?	a) Use a written description in conjunction with math symbols to describe how to solve the problem.
	b) Find the indicated area.

Problem 1 diagram labels: 15 in., 12 in., 9 in., 1 ft

Problem 2 diagram labels: 9 ft, 12 ft

Problem 3 diagram labels: 480 ft, 960 ft
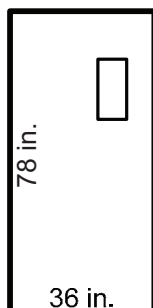
Composite Figures (pp. 2 of 4)

For each problem, shade the area you need to find in green and shade the area you need to remove in red.

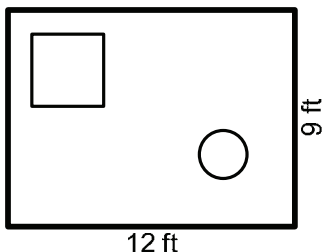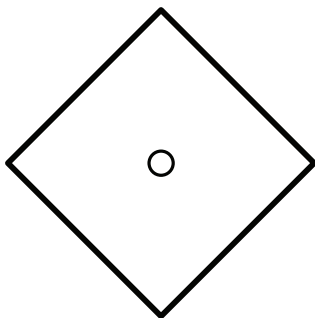|	
4. Mr. Gonzalez is planting carpet grass in the backyard of his new home. The grass is sold in pallets of square "grass tiles." The backyard is rectangular. There are two oak trees in the backyard; each tree has a square planter's box around its base. The planter's box around each tree has a side of 6 feet. How many square feet of grass does Mr. Gonzalez need for his new backyard? 72 ft 93 ft	a) Use a written description in conjunction with math symbols to describe how to solve the problem. b) Find the indicated area.
5. Mrs. Santos plans to cover the outside of her rectangular door with wallpaper. The window inside the door is 1.5 feet by 9 inches. How many square feet of wallpaper does she need to cover the door, excluding the window? 78 in. 36 in.	a) Use a written description in conjunction with math symbols to describe how to solve the problem. b) Find the indicated area.
6. Mrs. Pierce's husband built the following backdrop for her drama class. Mr. Pierce cut out a square hole with a side of 3 feet and a circular hole with a diameter of 2 feet. Mrs. Pierce is going to paint the front of the piece of the rectangular plywood. How many square feet of the plywood is to be painted? 9 ft 12 ft	a) Use a written description in conjunction with math symbols to describe how to solve the problem. b) Find the indicated area.

Composite Figures (pp. 3 of 4)

For each problem, shade the area you need to find in green and shade the area you need to remove in red.
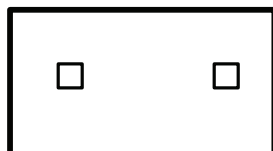
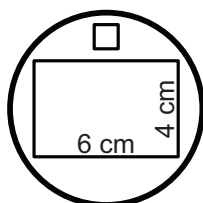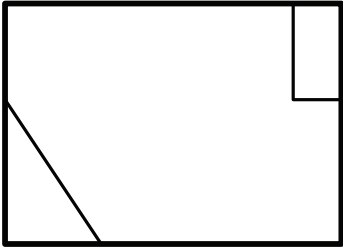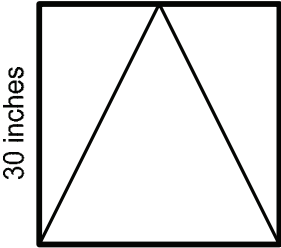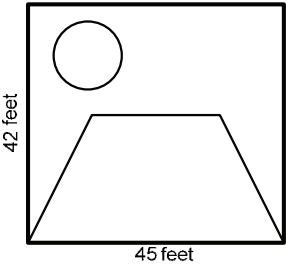|	
7. A baseball infield is a square with a side length of 90 feet. The infield is planted with grass except for a circular region for the pitcher's mound with a diameter of 6 feet. How many square feet of grass will need to be fertilized on the infield?	a) Use a written description in conjunction with math symbols to describe how to solve the problem. b) Find the indicated area.
8. Mr. Grief is getting new ceiling tiles for his classroom. The dimensions for his ceiling are 33 feet by 18 feet, but there are two square air conditioner vents in the ceiling. The square AC vents are 24 inches on each side. How many square feet of the ceiling will be tiled?	a) Use a written description in conjunction with math symbols to describe how to solve the problem. b) Find the indicated area.
9. A rectangular shaped pre-paid phone card is mounted in the center of a thin circular piece of clear plastic. A square hole has been punched in the clear plastic to hang the phone cards on a display rack. The diameter of the clear plastic is 8 cm and one side of the square hole is 1 cm. How many square centimeters of the clear plastic are showing?	a) Use a written description in conjunction with math symbols to describe how to solve the problem. b) Find the indicated area.

6 cm

4 cm

Composite Figures (pp. 4 of 4)

For each problem, shade the area you need to find in green and shade the area you need to remove in red.

10. Jane is buying new carpet for her bedroom. She will tile the triangular bathroom and rectangular closet. Jane's room is 21 feet by 15 feet. The triangular bathroom runs 9 feet along one wall and 6 feet along the adjacent wall. The dimensions of the rectangular closet are 6 feet by 3 feet. How many square yards of carpet does Jane need to carpet her bedroom?	a) Use a written description in conjunction with math symbols to describe how to solve the problem. b) Find the indicated area.
11. Ms. Roxanne sewed a banner with purple and gold material. A square piece of gold material is partially covered with a purple isosceles triangle. How many square feet of the gold material is still showing on the front of the banner? 30 inches	a) Use a written description in conjunction with math symbols to describe how to solve the problem. b) Find the indicated area.
12. The Clark's are adding a tiled patio to their rectangular yard. The total patio area is a trapezoid and circle as shown in the diagram below. The shortest base and height of the trapezoid is half the length of the longest base of the trapezoid. The circumference of the circular patio area is 37.68 feet. How many square feet of tile do the Clark's need for the tiled patio area? 42 feet 45 feet	a) Use a written description in conjunction with math symbols to describe how to solve the problem. b) Find the indicated area.