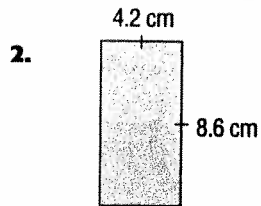
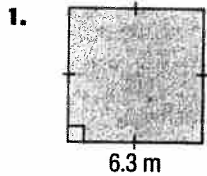
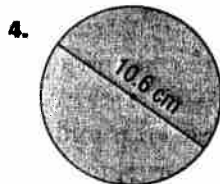
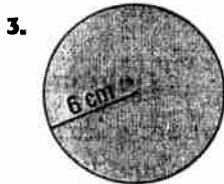


Practice Pg 261

Determine each area.

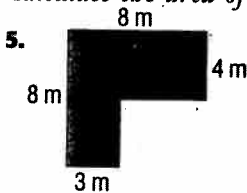


Calculate the area of each circle, to the nearest square centimetre.

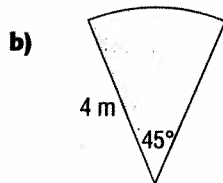
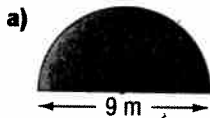


Problems and Applications

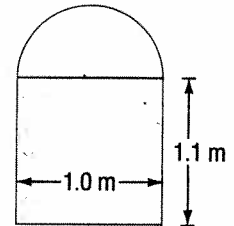
Calculate the area of each patio.



7. Calculate each area to the nearest square unit.



8. a) Calculate the area of the glass in this window to the nearest tenth of a square metre.



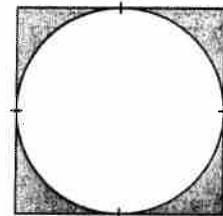
b) A protective storm window for this window costs \$19.99/m². What is the cost of the storm window?

9. A rectangular lot measures 66 m by 107 m. A sidewalk surrounds the lot. The sidewalk is 2 m wide. What is the area of the sidewalk?

10. You want to plant a 16-m² rectangular garden and build the shortest possible fence around it. What shape should you make the garden?

11. A gardener wants to rope off a rectangular area of grass. The gardener has 10 m of rope to block off 2 sides of the area and will use a wall of the garage and a wall of the house for the other 2 sides. What is the largest area that can be roped off?

12. The area of the circle is 153.86 m². Work with a partner to calculate the area of the shaded region. Use $\pi = 3.14$.



Section 7.1 p. 261

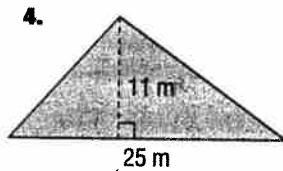
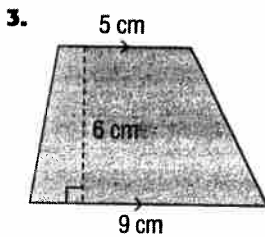
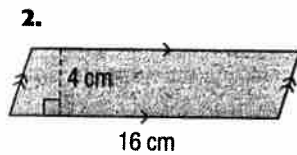
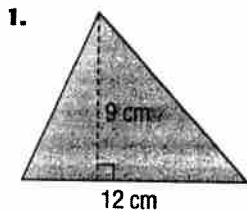
1. 39.69 m² 2. 36.12 cm² 3. 113 cm² 4. 88 cm²
Problems and Applications 5. 44 m² 6. 22.94 m²
 7. a) 32 cm² b) 6 m² 8. a) 1.5 m² b) \$29.99
 9. 708 m² 10. square 11. 25 m²

Section 7.2 p. 264

- Practice** 1. 54 cm² 2. 64 cm² 3. 42 cm²
 4. 137.5 m² 5. 93 m² 6. 192 cm² 7. 39 cm²
 8. 3 cm² **Problems and Applications**
 9. a) 60 cm² b) 40 cm² 10. 140 cm 11. Front or Back: 1120 cm², Side: 1504 cm² 12. 4.5 cm
 13. Area of each triangle is half the area of parallelogram or trapezoid. 14. 5 cm

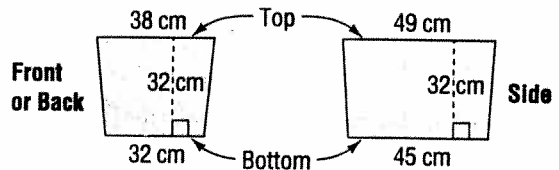
Practice Pg 264

Calculate the area of each figure.



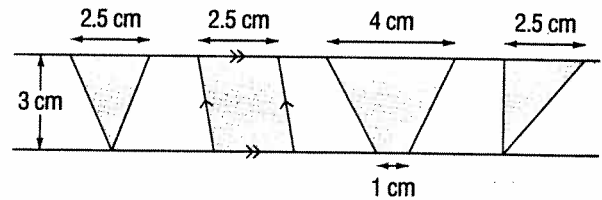
10. The area of a parallelogram is 8400 cm^2 . Its height is 60 cm. What length is its base?

11. Many Canadian cities use the Blue Box for recycling. The sides, the front, and the back of the Blue Box are trapezoids. What is the area of a side and a front or back?

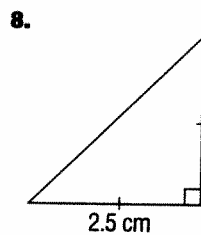
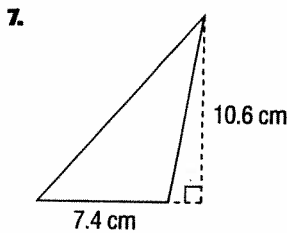
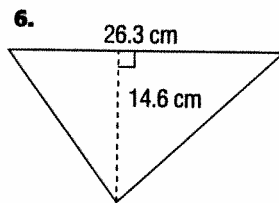
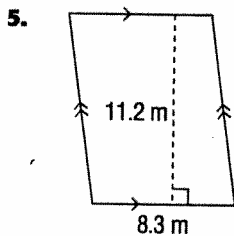


12. The area of a triangle is 14.4 cm^2 , and the length of its base is 6.4 cm. What is its height?

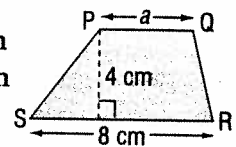
13. Without calculating any areas, decide how the areas of the triangles, parallelogram, and trapezoid compare. Explain.



Estimate each area. Then, calculate it to the nearest square centimetre or square metre.

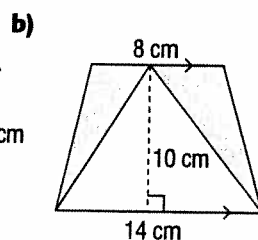
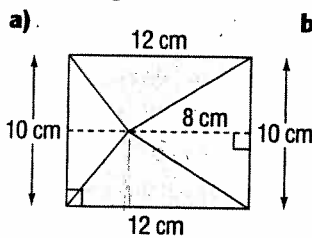


14. The area of trapezoid PQRS is 26 cm^2 . Work with a partner to calculate a when $b = 8 \text{ cm}$ and $h = 4 \text{ cm}$.



Problems and Applications

9. Calculate the area of the shaded region in each diagram.



WORD POWER

Change the word SLOW to the word FAST by changing 1 letter at a time. Each time you change a letter, you must form a real word. The best solution requires the fewest steps. Compare your list of words with a classmate's.