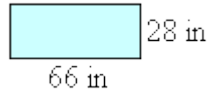
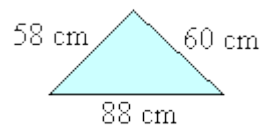


Review Exercise Set 38

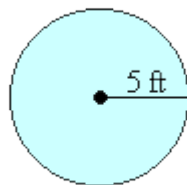
Exercise 1: Find the perimeter of the given figure below.



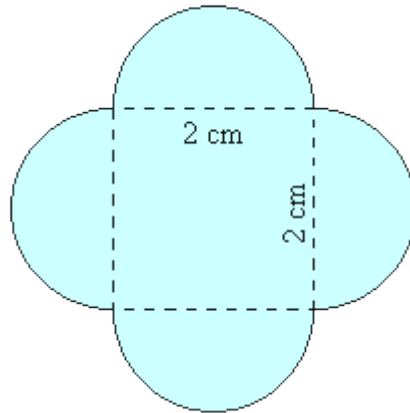
Exercise 2: Find the perimeter of the given figure below.



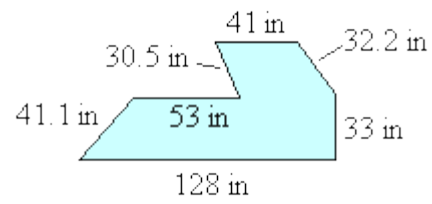
Exercise 3: Find the circumference of the given figure below.



Exercise 4: Find the perimeter or circumference of the given figure below.

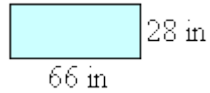


Exercise 5: Find the perimeter or circumference of the given figure below.



Review Exercise Set 38 Answer Key

Exercise 1: Find the perimeter of the given figure below.



The perimeter of a rectangle is equal to two times the length plus two times the width.

$$P = 2l + 2w$$

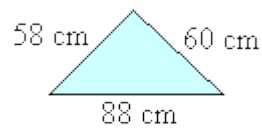
Now, substitute in the values for the length and width.

$$P = 2(66 \text{ in}) + 2(28 \text{ in})$$

$$P = 132 \text{ in} + 56 \text{ in}$$

$$\mathbf{P = 188 \text{ in}}$$

Exercise 2: Find the perimeter of the given figure below.



The perimeter of a triangle is the sum of its sides.

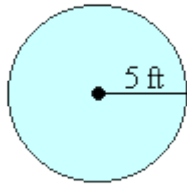
$$P = s_1 + s_2 + s_3$$

Substitute in the lengths of the sides.

$$P = 58 \text{ cm} + 88 \text{ cm} + 60 \text{ cm}$$

$$\mathbf{P = 206 \text{ cm}}$$

Exercise 3: Find the circumference of the given figure below.



The circumference of a circle is equal to two times pi times the radius.

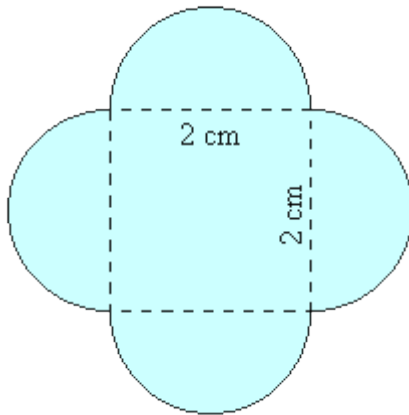
$$C = 2\pi r$$

Now, substitute in the approximate value of pi (3.14) and the value of the radius (5 ft).

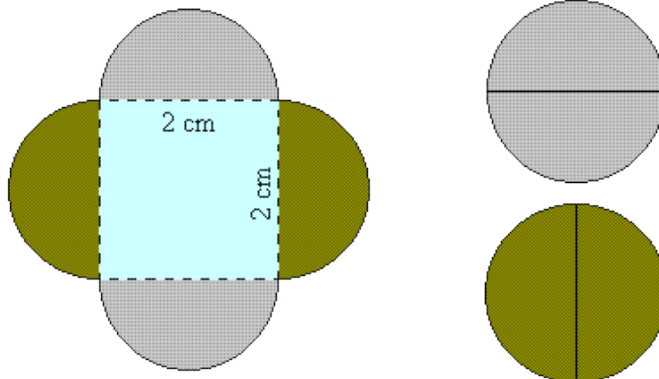
$$C \approx 2 * 3.14 * 5 \text{ ft}$$

$$C \approx \mathbf{31.4 \text{ ft}}$$

Exercise 4: Find the perimeter or circumference of the given figure below.



The perimeter of the given figure would consist of the circumference of four equal semicircles. Since the semicircles are all equal we can combine them as two circles.



So we can find the circumference of one of the circles and multiply it by two to obtain the total perimeter of the figure.

$$P = 2 * \text{Circumference of circle}$$

$$P = 2 * 2\pi r$$

$$P = 4\pi r$$

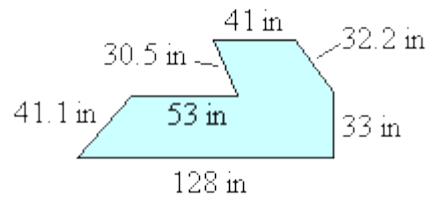
The length of the sides of the enclosed square is 2 cm, which would be the diameter of the circles. The radius of a circle is half of the diameter, so the radius would be 1 cm.

$$P = 4\pi r$$

$$P \approx 4 * 3.14 * 1 \text{ cm}$$

$$P \approx \mathbf{12.56 \text{ cm}}$$

Exercise 5: Find the perimeter or circumference of the given figure below.



The perimeter of the given figure would be the sum of all of its sides.

$$P = S_1 + S_2 + S_3 + S_4 + S_5 + S_6 + S_7$$

$$P = 41.1 \text{ in} + 53 \text{ in} + 30.5 \text{ in} + 41 \text{ in} + 32.2 \text{ in} + 33 \text{ in} + 128 \text{ in}$$

$$P = \mathbf{358.8 \text{ in}}$$