

2.3 Thinking Outside the Box

Focus: reasoning, calculating perimeter, measuring, rounding

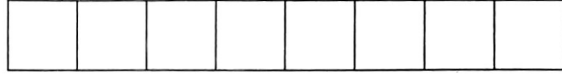
Warm Up

1. Convert each fraction to a percent.

a) $\frac{1}{4} =$ _____

b) $\frac{3}{4} =$ _____

2. Shade 75% of the diagram.



3. Convert to the units shown.

a) $1\frac{1}{4}$ h = _____ min

b) \$1.25 = _____ ¢.

4. a) Estimate the length of the line segment shown.

_____ cm

b) Measure the line.

_____ cm

5. Convert to the units shown.

a) 2 m 50 cm = _____ cm

b) 2 m 50 cm = _____ m

c) 5 cm 3 mm = _____ cm

d) 5 cm 3 mm = _____ mm

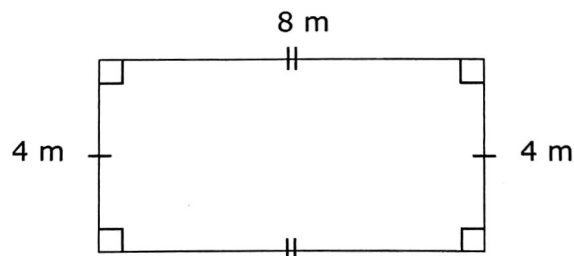
6. The HST on a \$99 purchase is approximately

\$ _____.

Calculating Perimeter

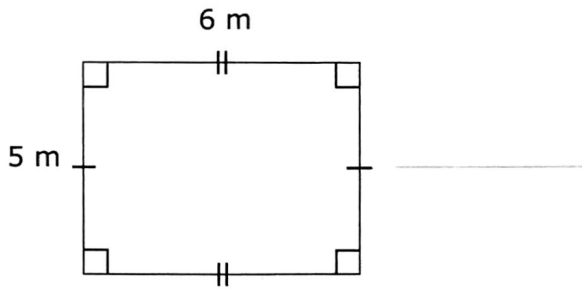
1. Fill in the missing **dimensions**.

a)

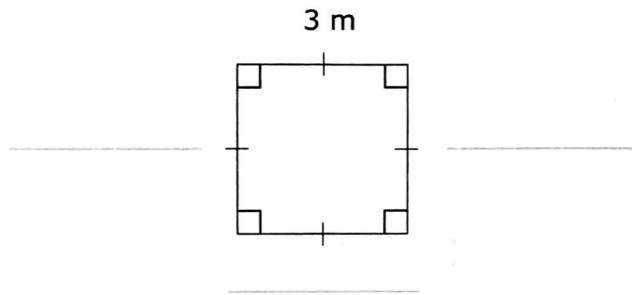


What are **dimensions**?

b)



c)



2. The distance around the outside of a figure is called its _____.

What is **perimeter**?

3. Determine the perimeter of each figure in #1.

a) _____ m + _____ m + _____ m + _____ m = _____ m

b)

c)

4. Circle the activities in the box that may require calculating perimeter.

Framing a picture

Cutting the lawn

Filling a swimming pool

Installing baseboard trim

Painting a room

Carpeting a room

Fencing in a garden

Wallpapering a room

5. List 3 occupations that may require a working knowledge of perimeter?

occupation
work done to earn a living

a) _____

b) _____

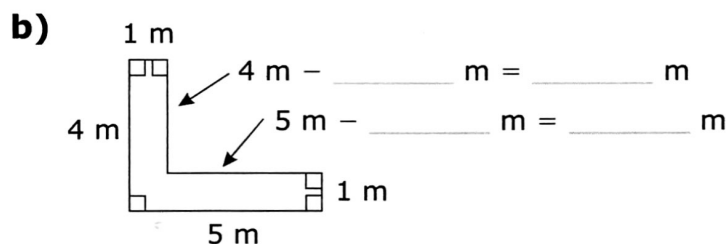
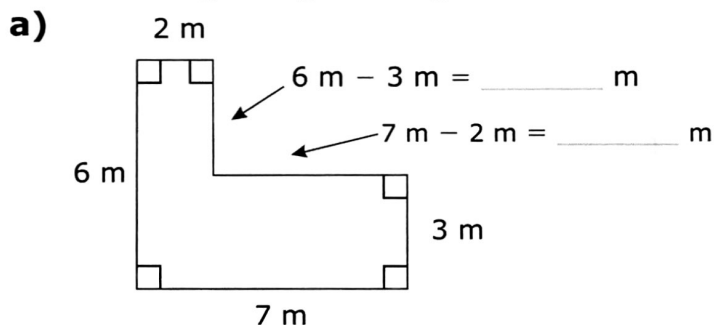
c) _____

6. Measure and record the length and the width of each item listed in the table. Round all measures to the nearest centimetre. Then, calculate the perimeter of each item.

Item	Length	Width	Perimeter
Teacher's desktop			
Display board			
Sheet of paper			
PA speaker			

Draw an example of an **irregular figure**.

7. Determine and label the missing dimensions for each of the following **irregular figures**.



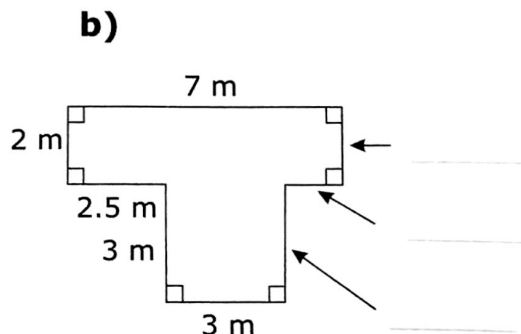
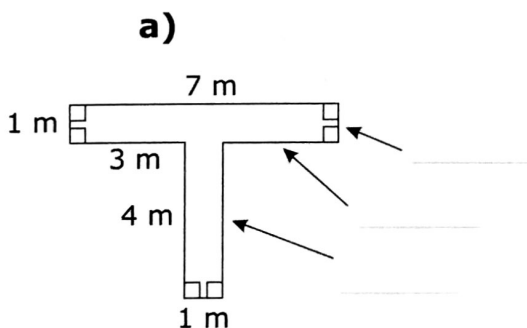
8. Calculate the perimeter of each figure in #7.

a)

b)

Remember to include the units in your answers.

9. Determine and label the missing dimensions for each of the following irregular figures.

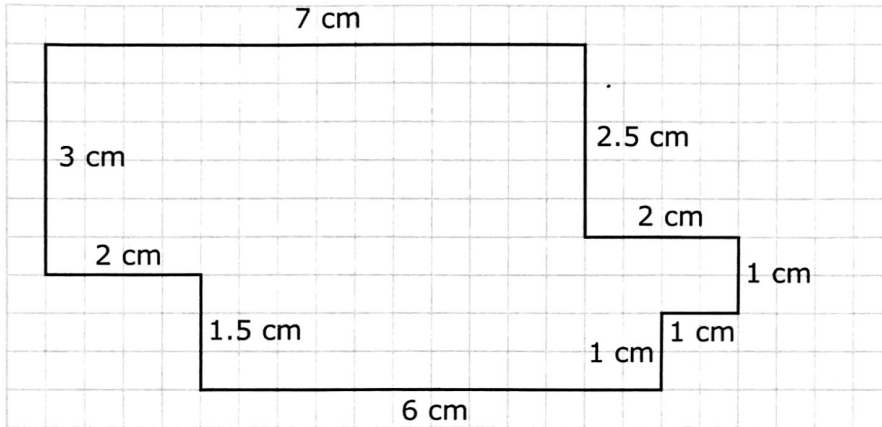


10. Calculate the perimeter of each figure in #9.

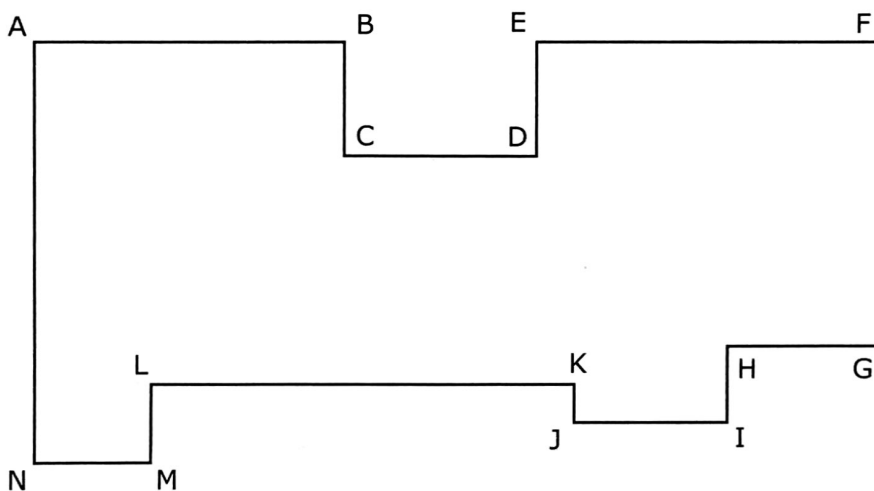
a)

b)

11. Calculate the perimeter of the following figure.



12. Measure each side of the following figure to the nearest 0.5 cm. Record the measurements in the table. Then, calculate the perimeter.



From	Length
A to B	
B to C	
C to D	
D to E	
E to F	
F to G	
G to H	
H to I	
I to J	
J to K	
K to L	
L to M	
M to N	
N to A	
Perimeter	

Check Your Understanding

Describe how to calculate the perimeter of a figure.