Solve real-world mathematical problems involving perimeters of polygons. Find the perimeter using the length of the sides and vice-versa. **CCSS.MATH.CONTENT.3.MD.D.8 | G3M4C24E1**

King Septus decides to move to a new planet. Help his ministers Kodus and Klang set up a colony on the new planet.

1 The colony is rectangular in shape. Find the total length of the sides of the colony. Write your answer in the boxes given below.
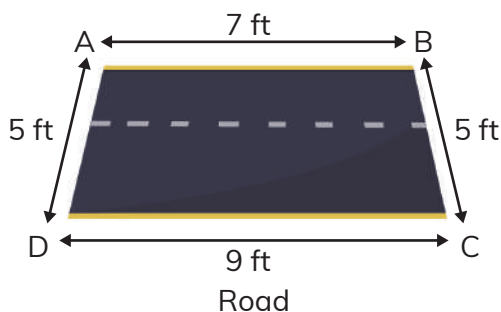
A ← 7 ft → B

6 ft   6 ft

D ← 7 ft → C
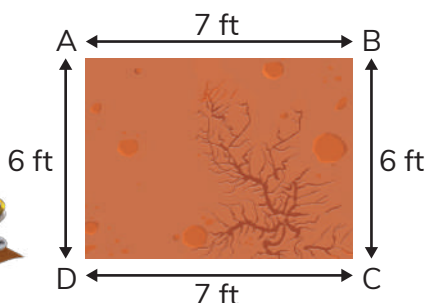
$\boxed{}$ + $\boxed{}$ + $\boxed{}$ + $\boxed{}$
AB   BC   CD   DA

Total length of the sides of the colony = $\boxed{}$ ft

2 Kodus designs a road as shown below. Find the perimeter of the road. Write your answer in the boxes given below.

A ← 7 ft → B

5 ft   5 ft

D ← 9 ft → C
Road

Perimeter of the road = AB + BC + CD + DA

$\boxed{}$ + $\boxed{}$ + $\boxed{}$ + $\boxed{}$
AB   BC   CD   DA
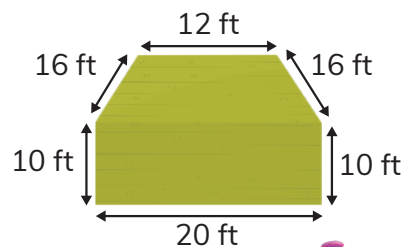
Perimeter of the road = $\boxed{}$ ft

3 Klang designs a park. Find the length of the boundary of the park. Circle the correct option.

90 ft   80 ft   84 ft

12 ft
16 ft   16 ft

10 ft   10 ft

20 ft

Solve real-world mathematical problems involving perimeters of polygons. Find the perimeter using the length of the sides and vice-versa. **CCSS.MATH.CONTENT.3.MD.D.8 | G3M4C24E1**
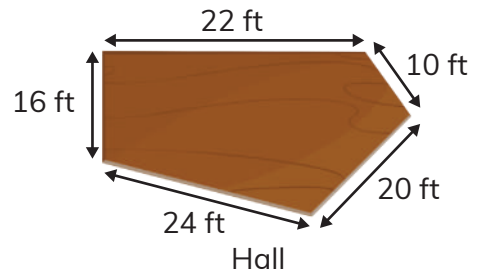
4 Klang designs a meeting hall in the colony. Find the perimeter of the hall. Check ✓ the correct box.
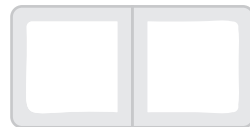
○ 92 ft   ○ 94 ft

22 ft
10 ft
16 ft
24 ft
20 ft

Hall

A King Septus wants a playground built in a symmetrical shape. Find the perimeter of the playground. Write your answer in the boxes given below.
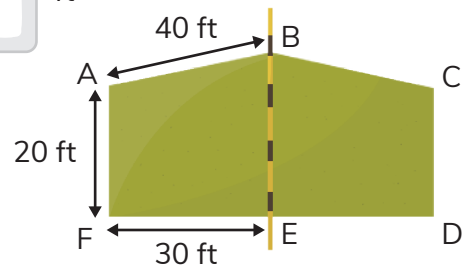
Perimeter of the playground. = [ ][ ] ft + [ ][ ] ft

Perimeter of EFAB   Perimeter of BCDE

= [ ][ ][ ] ft

40 ft   B
A   C
20 ft
F   E   D
30 ft

The length of the sides on the other half of the figure are equal because thefigure is symmetrical. Am I correct? (Circle) the correct option.

Yes   No

Solve real-world mathematical problems involving perimeters of polygons. Find the perimeter using the length of the sides and vice-versa. **CCSS.MATH.CONTENT.3.MD.D.8 | G3M4C24E1**

King Septus wants a polygon-shaped garden in the colony. Help Kodus and Klang make a garden.

1 Klang wants a square-shaped nameplate for the garden. Find the length of the boundary of the nameplate shown below. Check ✓ the correct box.
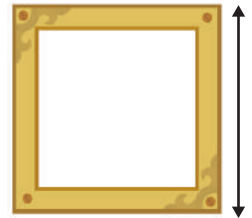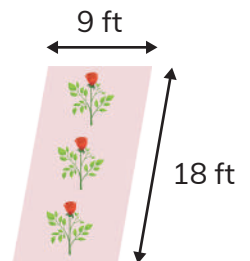
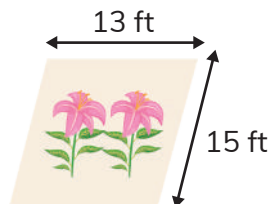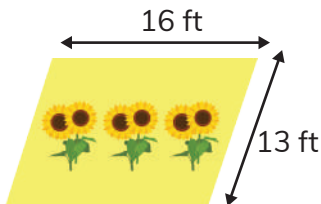◯ 40 in   ◯ 121 in   ◯ 44 in   11 in

The length of the boundary of a closed shape is called its perimeter. Am I correct? Circle the correct option.

Yes   No

2 Kodus wants to build parallelogram-shaped flower beds in the garden. Help him match the given perimeters with the correct parallelograms.

Hint: Opposite sides of a parallelogram are equal.

16 ft   13 ft   9 ft

13 ft   15 ft   18 ft

●   ●   ●

●   ●   ●
54 ft   58 ft   56 ft

Solve real-world mathematical problems involving perimeters of polygons. Find the perimeter using the length of the sides and vice-versa. **CCSS.MATH.CONTENT.3.MD.D.8 | G3M4C24E1**

3 Klang builds a symmetrical signboard for the garden. Help him find the perimeter of the board. Check ✓ the correct box.
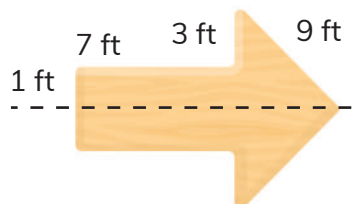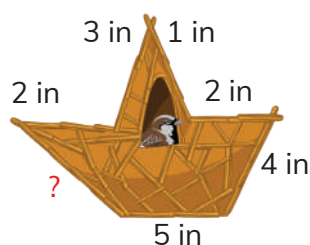
○ 40 ft   ○ 25 ft   ○ 50 ft

7 ft   3 ft   9 ft

1 ft

4 Kodus wants to make a birdhouse with perimeter 24 in. Help him find the length of the unknown side of the birdhouse. Circle the correct option.

3 in   1 in

2 in   2 in

?   4 in

5 in

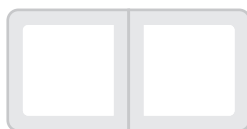2 in   7 in   10 in

A A wire is drawn 4 times around a garden. Find the required length of the wire. Write your answer in the boxes given below.
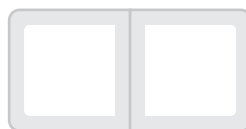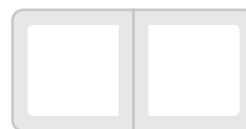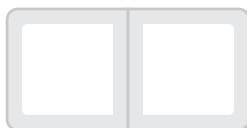
Perimeter of the garden =

[ ] [ ] + [ ] [ ] + [ ] [ ] + [ ] [ ]
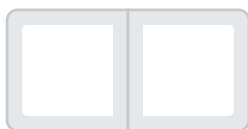
AB   BC   CD   DA

Required length of wire = [ ] [ ] × 4
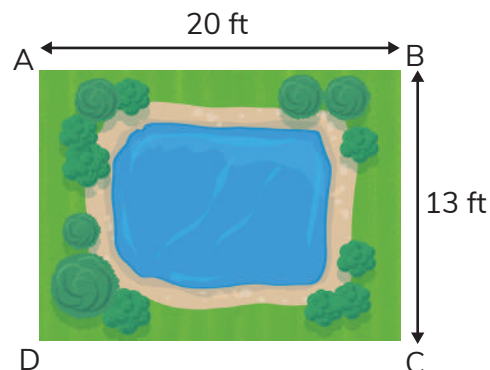
Perimeter of the garden
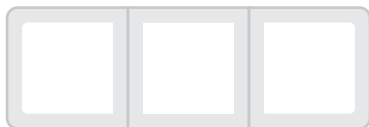
= [ ] [ ] [ ] ft

20 ft
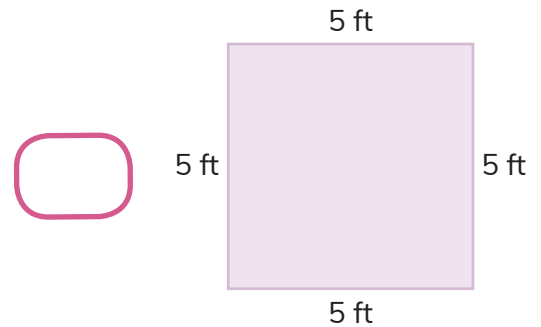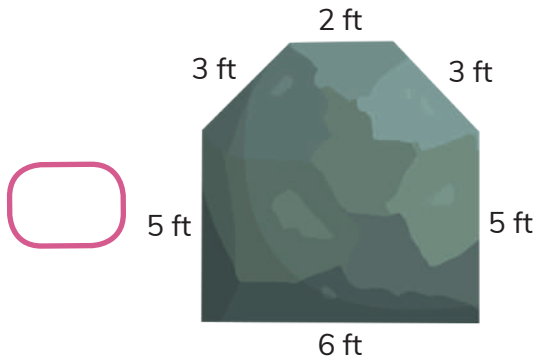
A ———————— B

13 ft

D   C

Solve real-world mathematical problems involving perimeters of polygons. Find the perimeter using the length of the sides and vice-versa. **CCSS.MATH.CONTENT.3.MD.D.8 | G3M4C24E1**

Help Kodus and Klang build a fountain in the garden to surprise King Septus.

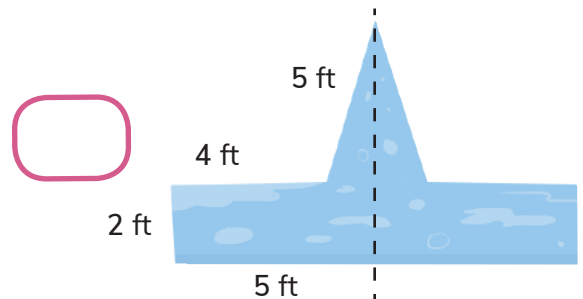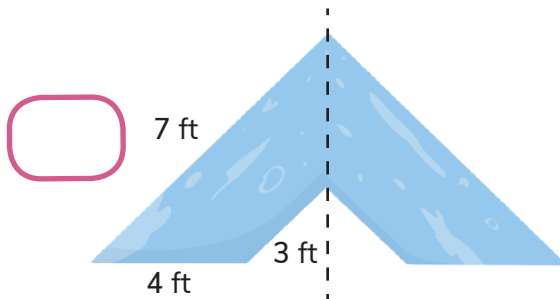**Step 1:** Check ✓ the shape of your choice for the base of the fountain.

2 ft

3 ft   3 ft

5 ft   5 ft

6 ft

5 ft

5 ft   5 ft

5 ft

Write the perimeter of the shape selected above in the given boxes.

[ ][ ] ft

Step 2: Kodus wants the water passage to be in a symmetrical shape. Check ✓ any one shape of your choice.

7 ft

4 ft

3 ft

5 ft

4 ft

2 ft

5 ft

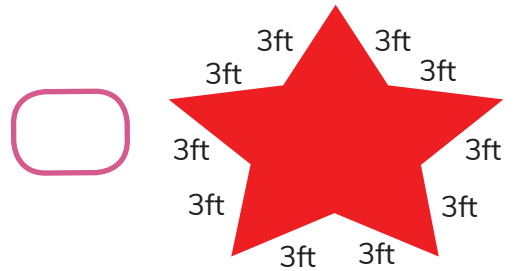Circle the perimeter of the shape selected above.
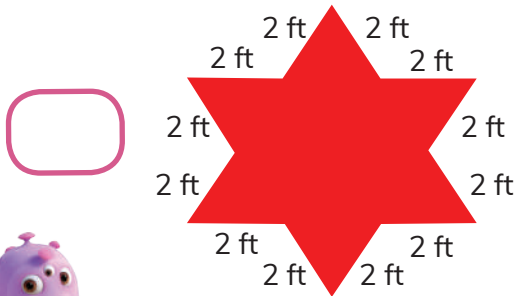
32 ft   28 ft

Solve real-world mathematical problems involving perimeters of polygons. Find the perimeter using the length of the sides and vice-versa. **CCSS.MATH.CONTENT.3.MD.D.8 | G3M4C24E1**

Step 3: Check ✓ any one box to select the shape of the fountain when viewed from the top.

2 ft 2 ft
2 ft 2 ft
2 ft 2 ft
2 ft 2 ft
2 ft 2 ft
2 ft 2 ft

3ft 3ft
3ft 3ft
3ft 3ft
3ft 3ft
3ft 3ft
3ft 3ft

Write the perimeter of the shape selected above in the given boxes.
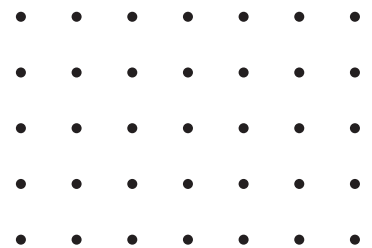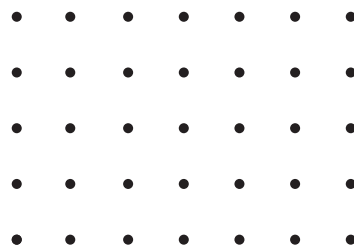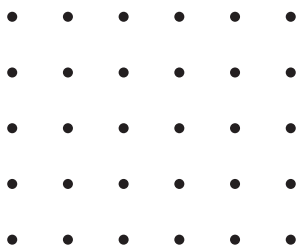
ft

Step 4: **It's time to build the fountain.**
● Connect the correct dots to make the shapes selected in **steps 1, 2,** and **3**.
● Color the shape of the base **green**, the water passage **blue**, and the top of the fountain **red**.

Base of the fountain   Water passage   Top of the fountain

Well done! King Septus is impressed with the fountain.
He rewards Kodus, Klang, and you with amazing presents.