## tutorified

## Perimeters of Polygons

1. Calculate the perimeter of each of the following.
a. Square with side length 5 cm .
b. Equilateral triangle with side length 3 cm .
c. Regular octagon with side length 2 cm .
d. Regular pentagon with side 5 cm .
e. Rectangle with dimension 3 cm by 4 cm .
f. Regular hexagon with side length 4 cm .
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$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
2. The perimeter of the chalkboard is 32 feet. It is 4 feet wide. How long is it?

Solution:
$\qquad$
3. If each side of the ice cube below is 1 inch long, find the difference between the perimeters of the face labeled A and the face labeled B.


Solution:
4. True or False
a. The perimeter of a square is independent of its side length.
b. The perimeter of any plane figure has the same unit of measurement as its length.
c. The perimeter of any plane figure can be equal to one of its side length.
d. The perimeter of a square with a side length of 4 cm is equal to the perimeter of a rectangle with dimension 8 cm by 2 cm (ignoring the unit).
5. If each of the following polygons is regular and each side length is 4 cm each, find the perimeter.


Solution:

Solution:

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## Answer Key

1. Calculate the perimeter of each of the following.
a. Square with side length 5 cm .
b. Equilateral triangle with side length 3 cm .
c. Regular octagon with side length 2 cm .
d. Regular pentagon with side 5 cm .
e. Rectangle with dimension 3 cm by 4 cm .
f. Regular hexagon with side length 4 cm .

20 cm
9 cm
16 cm
25 cm
14 cm
24 cm
2. The perimeter of the chalkboard is 32 feet. It is 4 feet wide. How long is it?

## 12 feet

3. If each side of the ice cube below is 1 inch long, find the difference between the perimeters of the face labeled A and the face labeled B .

| A |
| :--- |
| B in. Both are the same |
|  |

4. True or False
a. The perimeter of a square is independent of its side length.
b. The perimeter of any plane figure has the same unit of measurement as its length.
c. The perimeter of any plane figure can be equal to one of its side lengths.
$\qquad$
False
d. The perimeter of a square with a side length of 4 cm is equal to the perimeter of a rectangle with dimension 8 cm by 2 cm (ignoring the unit).
5. If each of the following polygons is regular and each side length is 4 cm each, find the perimeter.

24 cm

28 cm
