


Finding the Perimeter

Lesson 3

In Focus

 have 12 paper strips, each 1 m long.

They think it is possible to make polygons with the same perimeter but with different shapes. Is this possible?

Your teacher will give you paper strips to try it out.



Let's Learn

1 They make a square.



$$\text{Perimeter} = 3\text{ m} + 3\text{ m} + 3\text{ m} + 3\text{ m}$$

$$4 \times 3\text{ m}$$

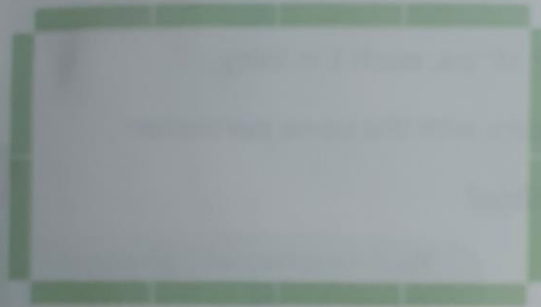


2 They also make rectangles.



$$\text{Perimeter} = 1\text{ m} + 5\text{ m} + 1\text{ m} + 5\text{ m}$$

$$1 \times 5\text{ m}$$



$$\text{Perimeter} = 2\text{ m} + 4\text{ m} + 2\text{ m} + 4\text{ m}$$

$$2 \times 4\text{ m}$$



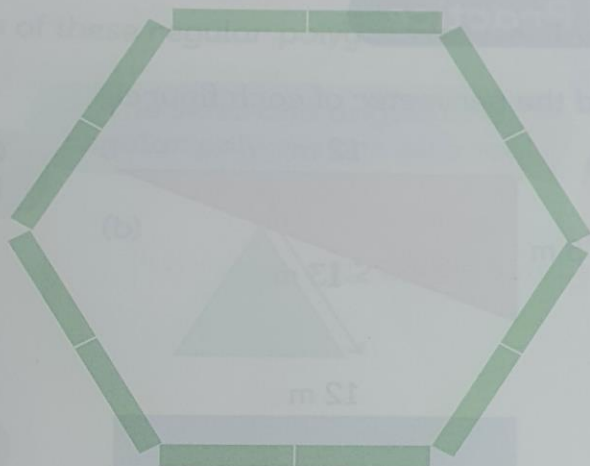
3 They also make a triangle.



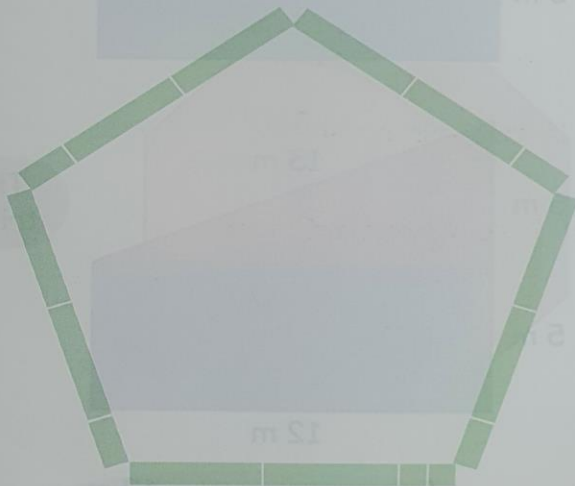
$$\text{Perimeter} = 3\text{ m} + 4\text{ m} + 5\text{ m}$$

4 They make a hexagon.

Perimeter = $6 \times 2 \text{ m}$



5 They make a pentagon.



We had to cut two of the pieces.



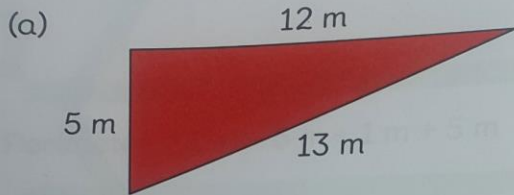
Perimeter = $5 \times 2.4 \text{ m}$

2 . 4
$\times \quad 5$
<hr/>
2 . 0
$+ 1 \ 0 . 0$
<hr/>
1 2 . 0

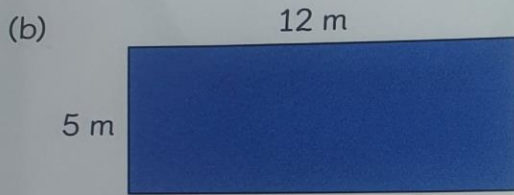
Must the two polygons in questions 5 and 6 be regular polygons?

Guided Practice

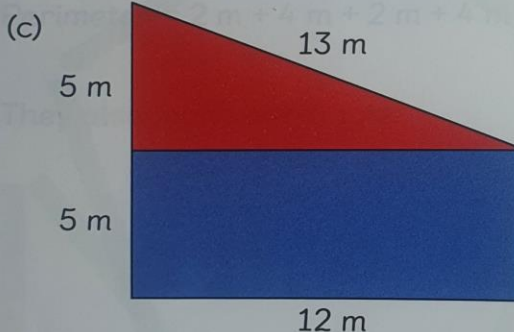
1 Find the perimeter of each figure.



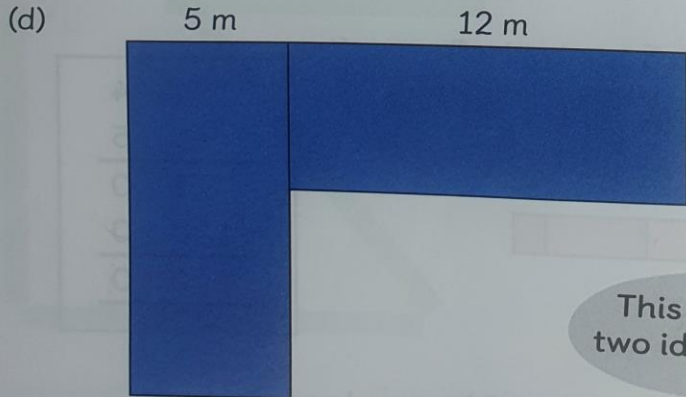
Can you imagine how large each figure is?



This is a rectangle.



This figure consists of a triangle and a rectangle.

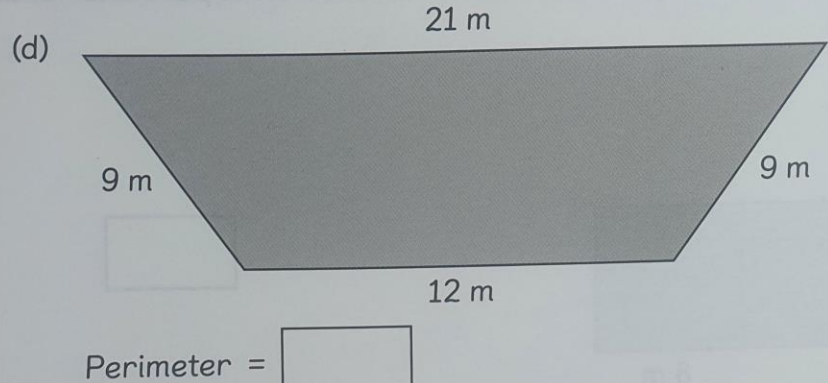
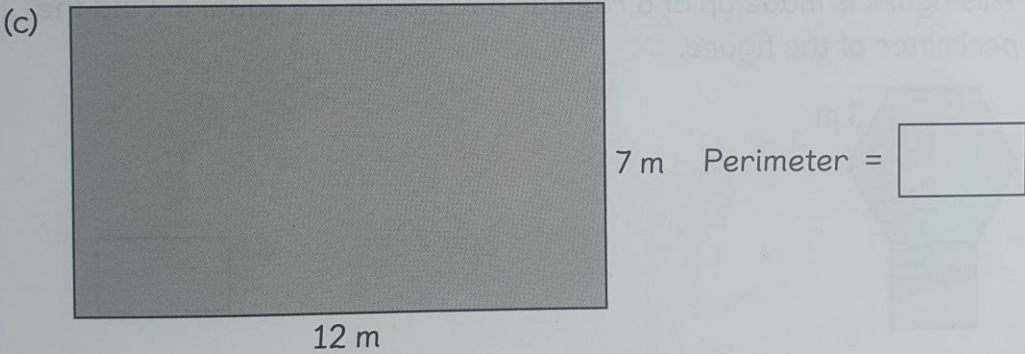
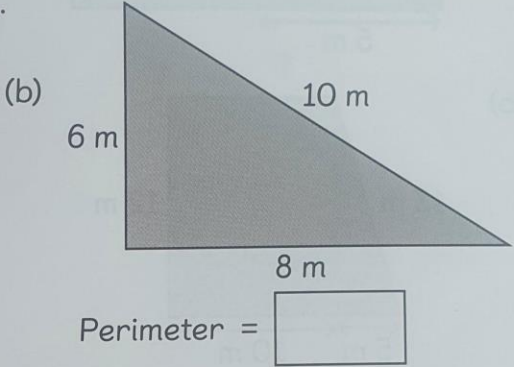
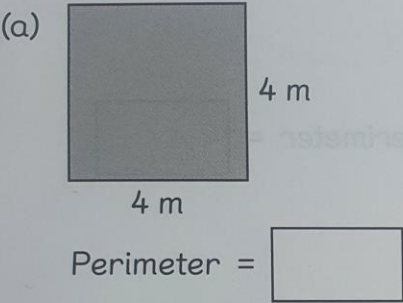


This figure consists of two identical rectangles.

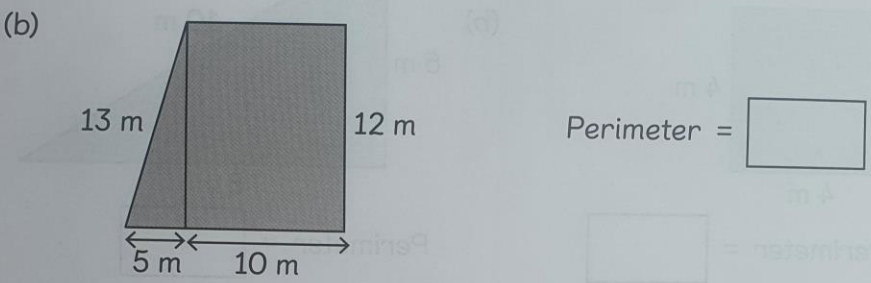
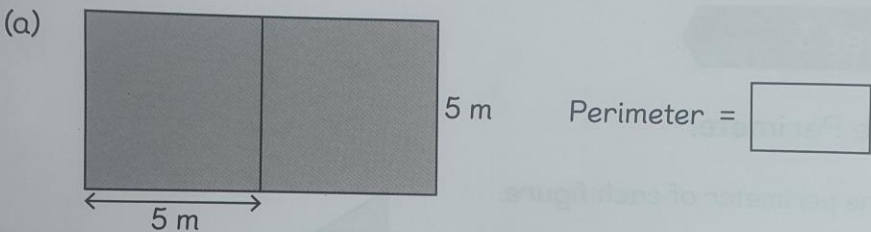


Finding the Perimeter

1 Find the perimeter of each figure.



2 Find the perimeter of each figure. The squares in (a) are identical.



3 This figure is made up of a regular hexagon and a square. Find the perimeter of the figure.



4 The two squares in the figure are identical. What is the perimeter of the figure?

