Changes to Perimeter and Area of a Rectangle

|  |  |  |  |
| --- | --- | --- | --- |
|  | Original  | Rectangle |  |
| Length | Width | Perimeter | Area |
| 2 inches | 3 inches |  inches |  $inches^{2}$ |

double

the

dimensions

|  |  |  |  |
| --- | --- | --- | --- |
|  | New  | Rectangle |  |
| Length | Width | Perimeter | Area |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Original  | Rectangle |  |
| Length | Width | Perimeter | Area |
| 6 inches | 4 inches |  inches |  $inches^{2}$ |

 halve

the

dimensions

|  |  |  |  |
| --- | --- | --- | --- |
|  | New  | Rectangle |  |
| Length | Width | Perimeter | Area |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Original  | Rectangle |  |
| Length | Width | Perimeter | Area |
| 5 inches | 2 inches |  inches |  $inches^{2}$ |

triple

the

dimensions

|  |  |  |  |
| --- | --- | --- | --- |
|  | Original  | Rectangle |  |
| Length | Width | Perimeter | Area |
|  |  |  |  |

Fill in the blanks on the previous page’s tables for original and new rectangles. Then answer the questions that follow.

1) How is the perimeter of the rectangle affected when we:

a) doubled the dimensions

The perimeter when I doubled the dimensions.

b) halved the dimensions

c) tripled the dimensions

2) How is the area of the rectangle affected when we:

a) doubled the dimensions

The area when I doubled the dimensions.

b) halved the dimensions

c) tripled the dimensions