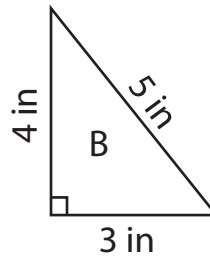
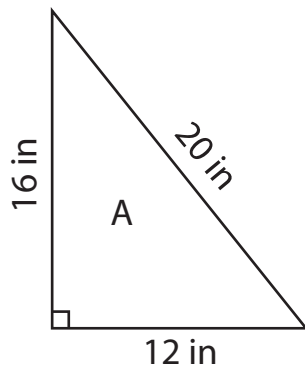


Name : _____

Ratio of Perimeters and Areas

Sheet 1



- 1) What is the scale factor of figure A to figure B?

- 2) Determine the perimeters of figures A and B.

- 3) What is the ratio of perimeters of figure A to figure B?

- 4) Find the areas of figure A and figure B.

- 5) What is the ratio of areas of figure A to figure B?

- 6) Express the relationship between scale factor and the ratio of perimeters.

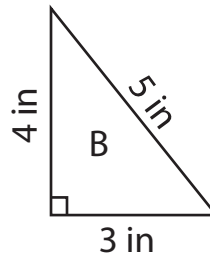
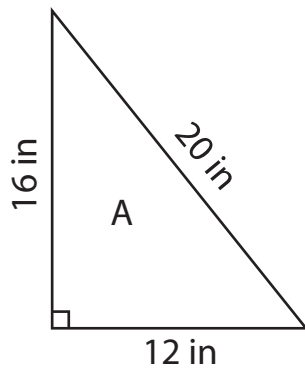
- 7) What is the relation between scale factor and the ratio of areas?

Name : _____

Answer key

Ratio of Perimeters and Areas

Sheet 1



- 1) What is the scale factor of figure A to figure B?

4 : 1

- 2) Determine the perimeters of figures A and B.

48 in ; 12 in

- 3) What is the ratio of perimeters of figure A to figure B?

4 : 1

- 4) Find the areas of figure A and figure B.

96 in² ; 6 in²

- 5) What is the ratio of areas of figure A to figure B?

16 : 1

- 6) Express the relationship between scale factor and the ratio of perimeters.

Ratio of perimeters = 4 : 1 = scale factor

- 7) What is the relation between scale factor and the ratio of areas?

Ratio of areas = 16 : 1 = 4² : 1² = (scale factor)²