

# MasterMath

## Perimeter and Area of Similar Figures

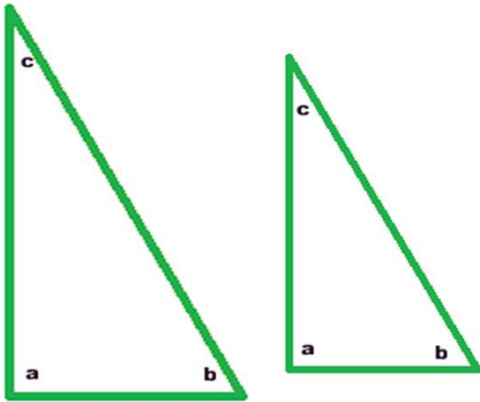
Name \_\_\_\_\_

Date \_\_\_\_\_

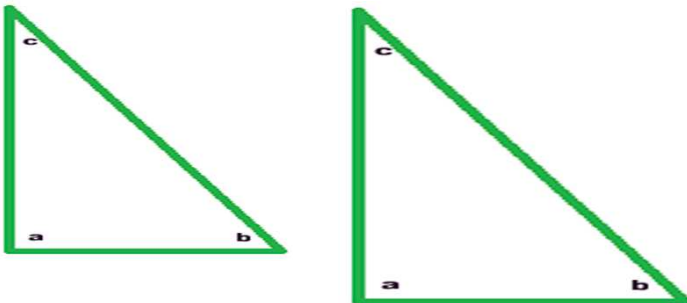
1. Figures A and B are similar two dimensional figures. Fill in the blanks.

Figure A height	Figure B height	Figure A perimeter	Figure A area	Figure B perimeter	Figure B area
12	18	48	144		
100	50	256	2800		
6	15	24	36		
10	1	32.4	62		
25	5	70	250		
4	24	14	12		

2. Angles a, b and c are the same on each of these triangles. Are the triangles similar?




3. These two right triangles are similar. Angle b in the triangle on the left is 45°. What is the measure of angle c on the triangle on the right?




4. One flag is 48" x 30". The second flag is 24" x 12". Are these similar figures?

5. Rectangle A is 4" x 12". Rectangle B is 1' x 3'. Are they similar?

6. Figures A and B are similar and two dimensional. The area of Figure A is 40 sq in. The base of Figure A is 10". The base of Figure B is 20". What is the area of figure B?