Name: _____

Scale Factor and Area

Solve each problem. Include units.

1. A 6 cm by 2 cm rectangle is scaled by a factor of 2. What are the new dimensions and the new area?

   Answer: _____

2. A 8 cm by 8 cm rectangle is scaled by a factor of 1/2. What are the new dimensions and the new area?

   Answer: _____

3. A 10 cm by 12 cm rectangle is scaled by a factor of 2 1/2. What are the new dimensions and the new area?

   Answer: _____

4. A 6 cm by 6 cm rectangle is scaled by a factor of 2 1/2. What are the new dimensions and the new area?

   Answer: _____

5. A 6 cm by 6 cm rectangle is scaled by a factor of 1/2. What are the new dimensions and the new area?

   Answer: _____

6. A 4 cm by 6 cm rectangle is scaled by a factor of 2. What are the new dimensions and the new area?

   Answer: _____

7. A 9 cm by 9 cm rectangle is scaled by a factor of 3. What are the new dimensions and the new area?

   Answer: _____

8. A 6 cm by 8 cm rectangle is scaled by a factor of 1 1/2. What are the new dimensions and the new area?

   Answer: _____

9. A 6 cm by 7 cm rectangle is scaled by a factor of 2. What are the new dimensions and the new area?

   Answer: _____

10. A 9 cm by 9 cm rectangle is scaled by a factor of 2. What are the new dimensions and the new area?

    Answer: _____

Name: **ANSWER KEY**

Scale Factor and Area

Solve each problem. Include units.

1. A 6 cm by 2 cm rectangle is scaled by a factor of 2. What are the new dimensions and the new area?

Answer: 12 cm by 4 cm, 48 sq cm

2. A 8 cm by 8 cm rectangle is scaled by a factor of 1/2. What are the new dimensions and the new area?

Answer: 4 cm by 4 cm, 16 sq cm

3. A 10 cm by 12 cm rectangle is scaled by a factor of 2 1/2. What are the new dimensions and the new area?

Answer: 25 cm by 30 cm, 750 sq cm

4. A 6 cm by 6 cm rectangle is scaled by a factor of 2 1/2. What are the new dimensions and the new area?

Answer: 15 cm by 15 cm, 225 sq cm

5. A 6 cm by 6 cm rectangle is scaled by a factor of 1/2. What are the new dimensions and the new area?

Answer: 3 cm by 3 cm, 9 sq cm

6. A 4 cm by 6 cm rectangle is scaled by a factor of 2. What are the new dimensions and the new area?

Answer: 8 cm by 12 cm, 96 sq cm

7. A 9 cm by 9 cm rectangle is scaled by a factor of 3. What are the new dimensions and the new area?

Answer: 27 cm by 27 cm, 729 sq cm

8. A 6 cm by 8 cm rectangle is scaled by a factor of 1 1/2. What are the new dimensions and the new area?

Answer: 9 cm by 12 cm, 108 sq cm

9. A 6 cm by 7 cm rectangle is scaled by a factor of 2. What are the new dimensions and the new area?

Answer: 12 cm by 14 cm, 168 sq cm

10. A 9 cm by 9 cm rectangle is scaled by a factor of 2. What are the new dimensions and the new area?

Answer: 18 cm by 18 cm, 324 sq cm