Name: _____

Scale Factor and Similar Figures

Answer each question about the similar figures.

1. A 7 by 3 rectangle is dilated by a scale factor of 5. What is the area of the new rectangle?

   Answer: _____

2. Rectangle A is 14 by 12. Rectangle B is 21 by 18. What is the scale factor from A to B?

   Answer: _____

3. A 4 by 8 rectangle is dilated by a scale factor of 4. What is the area of the new rectangle?

   Answer: _____

4. Rectangle A is 9 by 3. Rectangle B is 36 by 12. What is the scale factor from A to B?

   Answer: _____

5. Rectangle A is 6 by 7. Rectangle B is 18 by 21. What is the scale factor from A to B?

   Answer: _____

6. A 2 by 6 rectangle is dilated by a scale factor of 1 1/2. What is the area of the new rectangle?

   Answer: _____

7. A 8 by 18 rectangle is dilated by a scale factor of 1/2. What is the area of the new rectangle?

   Answer: _____

8. A 5 by 7 rectangle is dilated by a scale factor of 2. What is the area of the new rectangle?

   Answer: _____

9. Rectangle A is 12 by 18. Rectangle B is 6 by 9. What is the scale factor from A to B?

   Answer: _____

10. Rectangle A is 2 by 8. Rectangle B is 4 by 16. What is the scale factor from A to B?

    Answer: _____

11. Rectangle A is 3 by 6. Rectangle B is 15 by 30. What is the scale factor from A to B?

    Answer: _____

12. A 2 by 7 rectangle is dilated by a scale factor of 3. What is the area of the new rectangle?

    Answer: _____

Name: **ANSWER KEY**

Scale Factor and Similar Figures

Answer each question about the similar figures.

1. A 7 by 3 rectangle is dilated by a scale factor of 5. What is the area of the new rectangle?

Answer: 525 sq units

2. Rectangle A is 14 by 12. Rectangle B is 21 by 18. What is the scale factor from A to B?

Answer: 1 1/2

3. A 4 by 8 rectangle is dilated by a scale factor of 4. What is the area of the new rectangle?

Answer: 512 sq units

4. Rectangle A is 9 by 3. Rectangle B is 36 by 12. What is the scale factor from A to B?

Answer: 4

5. Rectangle A is 6 by 7. Rectangle B is 18 by 21. What is the scale factor from A to B?

Answer: 3

6. A 2 by 6 rectangle is dilated by a scale factor of 1 1/2. What is the area of the new rectangle?

Answer: 27 sq units

7. A 8 by 18 rectangle is dilated by a scale factor of 1/2. What is the area of the new rectangle?

Answer: 36 sq units

8. A 5 by 7 rectangle is dilated by a scale factor of 2. What is the area of the new rectangle?

Answer: 140 sq units

9. Rectangle A is 12 by 18. Rectangle B is 6 by 9. What is the scale factor from A to B?

Answer: 1/2

10. Rectangle A is 2 by 8. Rectangle B is 4 by 16. What is the scale factor from A to B?

Answer: 2

11. Rectangle A is 3 by 6. Rectangle B is 15 by 30. What is the scale factor from A to B?

Answer: 5

12. A 2 by 7 rectangle is dilated by a scale factor of 3. What is the area of the new rectangle?

Answer: 126 sq units