

Math 9

Unit 4 Review

Worksheet page numbers.
(NOT YOUR TEXT)

1) Practice Test: pg. 162/ 1 – 6, 8 – 13, 15
[key below]

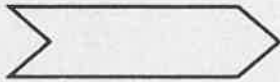
2) Chapter Review: pg. 160/ 1 – 5, 8 – 18
[key in text]

Chapter 4 Practice Test KEY

1. C 2. D 3. C 4. B 5. 15 cm 6. scale factor

7. Look for a reduction using a scale factor of 0.5.

Example:



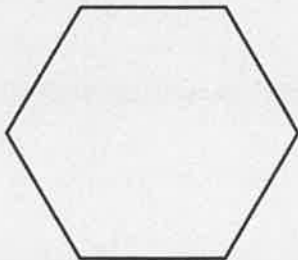
8. 0.2 9. 0.01 10. 22.4 mm

11. Yes, they are similar. All corresponding angles are equal in measure and the corresponding sides are proportional using a scale factor of 0.77.

12. 25 m

13. The triangles are not similar. The corresponding sides are not proportional in length.

14. Example:

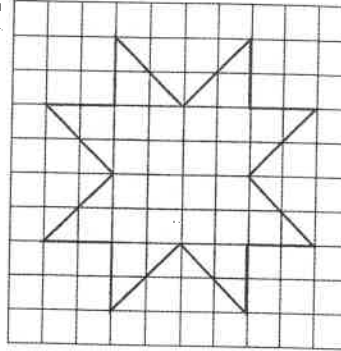


15. $x = 2$; $y = 2.88$

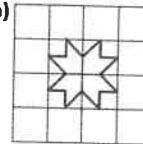
Chapter 4 Review, pages 160–161

1. POLYGON
2. SIMILAR
3. SCALE FACTOR
4. PROPORTION

5. a)

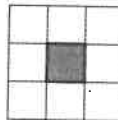


b)

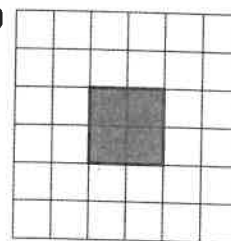


6. The vertical height of the drawing is 3 cm. The enlarged egg will have a vertical height of 9 cm.
7. The vertical height of the drawing is 3 cm. The reduced drawing will have a vertical height of 1.5 cm.

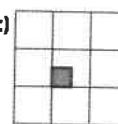
8. a)



b)



c)



9. $\frac{2}{13}$

10. a) 14 cm b) 13.9 cm

11. 8.7 cm

12. $\frac{1}{10\,000\,000}$

13. No. The corresponding sides are not proportional.

14. $x = 10$

15. $x = 3$

16. The polygons are not similar.

17. 10.1 cm

18. $x = 7.2$; $y = 9.6$