Prentice Hall Geometry 10 4 Practice Answers

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10-4 Practice (continued) Form G The scale factor of two similar polygons is given. Find the ratio of their perimeters and the ratio of their areas. 15. 5 : 1 16. 2 : 7 17. 3 4 18. 10 7 19. 10 : 3 20. 5 9 Algebra Find the values of x and y when the smaller similar rectangle shown here has the area given. 21. 210 ft2 22. 220 ft 23. 22.5 ft 24. 1

10-4 Practice Form G Prentice Hall Gold Geometry • Teaching Resources Find the area of each regular polygon. Round your answers to the nearest tenth. 1. 2. 3. Find the area of each regular polygon. Round your answers to the nearest tenth. 4. hexagon with side length 4 m 5.

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10 cm 5 ft 5 ft 4.33 ft 11 ft 12 ft 13 ft 13 m 17 m 12 m 17 m 26 yd 24 yd 18 in. 15 in. 6 cm 4 in. 3 in. 6 in. 5 mm 4 ft 8 cm 12 cm 6 yd 6 yd 80 ft 50 ft 60 ft 3 in. 1.75 in. Extra Practice Chapter 10 80 cm2 10.825 ft2 143 ft2 102 m2 120 yd2 The sides are not marked parallel, so you cannot determine the area. 72 cm2 15 in.2 25 4 "3 mm2 32"3 ft2

Prentice Hall Gold Geometry • Teaching Resources #2.5 #10 4 m 8 m 10 m 4 m 11-4 Practice (continued) Form G Volumes of Prisms and Cylinders 1872 cm3 9.9 mm 2472 cm3 320 m3 2475 yd3 Leave answers in simplest radical form. The diagrams are not to scale. 20. 21. 22.

4 x 10 15 20 25 9 14 17 10 20 10 5 P A D C S R Q O x P 8 3 x 12 3 16 12 Extra Practice Chapter 12 5.2 10 no, 92 1142 2172 14.8 65 1.82 units Yes. Each side of the polygon is a chord of the circle, and the 'bis. of any chord contains the center of the circle. yes, 152 1202 5252 5.3 6 yes, 102 1202 5(10/5)2 Tangents to a a from a point outside

4 9 2x 1 3x 3 AB D C 2y 2 4x 2 3y 2 22 y 14 D C 2y (4x 8) (3y 15) AB D C (2x 4) (7y 3) 3x 3 6x 18 6-3 Practice (continued) Form K Proving That a Quadrilateral Is a Parallelogram One I must be suppl. to both of its consecutive '. The classmate is describing a rectangle, which is one type of parallelogram. 12; 14 21.5; 39 7; 3 9; 18 kCDA Given

Prentice Hall Gold Geometry • Teaching Resources Name Class Date 6-9 Practice Form G Proofs Using Coordinate Geometry Use coordinate geometry to prove each statement. Follow the outlined steps. side lengths can be shown to be equal using coordinate geometry. Distance Formula yes; yes Answers may vary. Sample: with vertices A(p, r)

4-1 Practice Form G Congruent Figures ml 1 110; ml2 5 120 CA O JS, AT O SD, CT O JD IC OJ, IA OIS, IT OID Yes; lGHJ OIIIJ Justify your answers. 11. AEFD and BCF 12. nFGH and nJKH l Algebra Find the values of the variables. 13. Prentice Hall Gold Geometry • Teaching Resources

10. Reasoning Lines a, b, c, and d are in the same plane. Line a is parallel to line c. Lines b and c are perpendicular to line d. Based on this, tell how the lines listed below are related. Justify your answers. a. lines a and b b. lines a and d x y x y x x 3-4 Practice (continued) Form K Parallel and Perpendicular Lines