

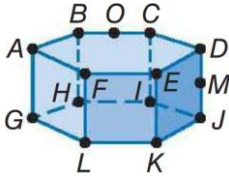
Geometry Final Review

Name _____

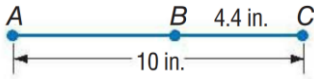
Date _____ Period _____

CHAPTER 1

1. Name 3 collinear points _____, _____, _____



2. Find AB _____



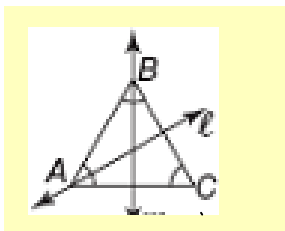
3. Find the distance between $F(5, -6)$ and $N(-5, 6)$ _____

4. Find the coordinates of the midpoint of a segment with the given endpoints
 $C(-7, -4)$ and $B(3, 5)$ _____

Chapter 9

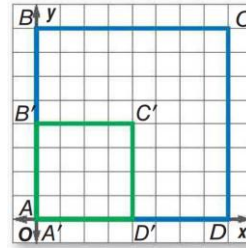
5. Given $A(2, -4)$, what would A' be under a reflection in the line $y = x$? _____

6. Name the image of \overline{AC} under reflection in line l _____

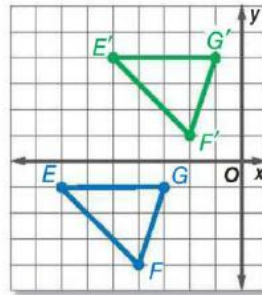


7. What is the image of $A(2, 1)$ under the translation $(3, -1)$ _____

8. Is the dilation a reduction or an enlargement? What is the scale factor? _____

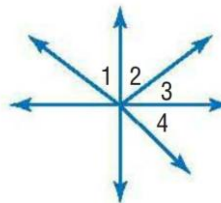


9. What is the vector that describes the translation? _____



Chapter 3

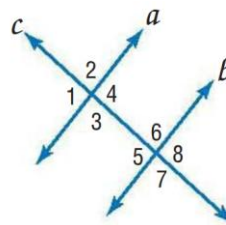
10. Find the measure of each angle if $\angle 2$ and $\angle 3$ are complementary. $\angle 1 \cong \angle 4$ and $m\angle 2 = 28$



$m\angle 1$ _____
 $m\angle 3$ _____
 $m\angle 4$ _____

11. Identify each pair of angles as *alternate interior*, *alternate exterior*, *corresponding* or *consecutive interior*.

$\angle 6$ and $\angle 3$ _____
 $\angle 1$ and $\angle 5$ _____
 $\angle 4$ and $\angle 6$ _____
 $\angle 2$ and $\angle 7$ _____



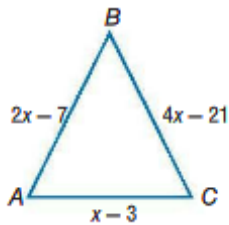
12. In the drawing above, given $a \parallel b$, if $m\angle 6 = 85^\circ$ find $m\angle 3$ _____

13. Determine the slope of the line containing the points $C(7, -3)$ and $D(-8, -3)$.

14. Write an equation in slope-intercept form of the line with slope of $m = 3$ and y-intercept of -5

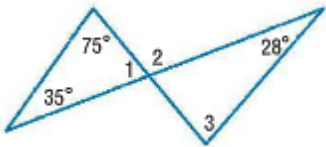
Chapter 4

15. Find x and the length of each side if $\triangle ABC$ is an isosceles triangle with $\overline{AB} \cong \overline{BC}$



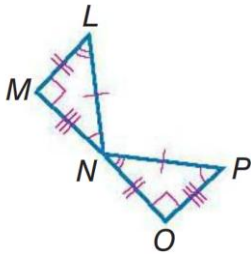
- x _____
- \overline{AB} _____
- \overline{BC} _____
- \overline{AC} _____

16. Find measure of each numbered angle



- $m < 1$ _____
- $m < 2$ _____
- $m < 3$ _____

17. Write the similarity statement for the congruent triangles in the figure



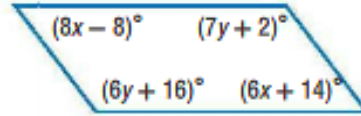
Chapter 6

18. Find the sum of the measures of the interior angles of a 25-gon. _____

19. Find the sum of the measures of the exterior angles of a convex 15-gon. _____

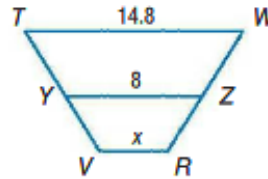
20. List the characteristics of a parallelogram.

21. Find x and y so that the quadrilateral is a parallelogram.

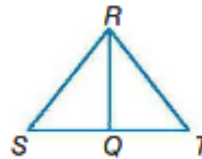


- x _____
- y _____

22. \overline{YZ} is the median of trapezoid $TRWV$. Determine the value of x _____



Chapter 5



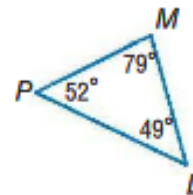
Use this figure for #'s 23-25.

23. If \overline{RQ} is a median then $\overline{SQ} \cong$ _____

24. If \overline{RQ} is an angle bisector, then $\angle SRQ \cong$ _____

25. If \overline{RQ} is an altitude, then $m \angle RQS =$ _____

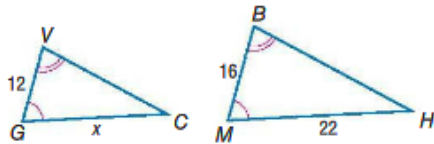
26. What is the longest side of $\triangle LMP$? _____



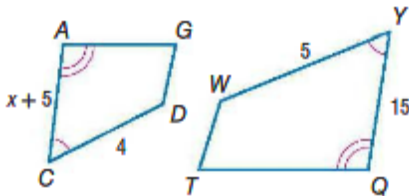
Chapter 7

27. There are 15 plums and 9 apples in a bowl. What is the ratio of apples to plums? _____

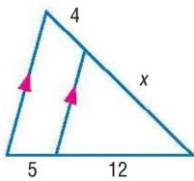
28. If the two triangles are similar, find the value of x . _____



29. The pair of polygons is similar. Find x . _____



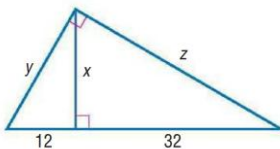
30. Find x . _____



31. A rectangle has a perimeter of 56 yards. A similar rectangle has a perimeter of 84 yards. If the length of the larger rectangle is 30 inches, what is the length of the smaller rectangle? Round to the nearest tenth if necessary. _____

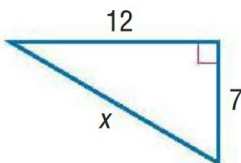
Chapter 8

32. Find x , y and z

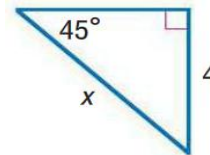


x _____
 y _____
 z _____

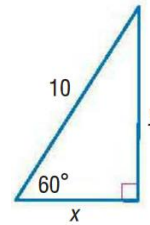
33. Find x . _____



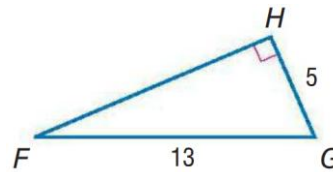
34. Find x . _____



35. Find x and y . x _____
 y _____



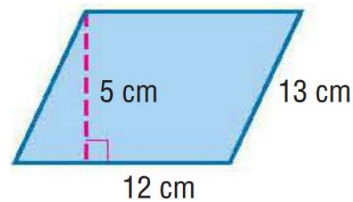
36. Solve the right triangle. Round side measures to the nearest tenth and angle measures to the nearest degree



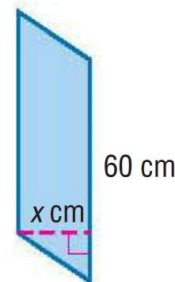
$m \angle G$ _____
 $m \angle F$ _____
 HF _____

Chapter 11

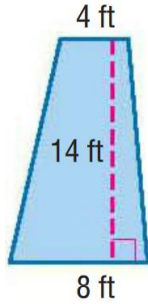
37. Find the area of the parallelogram. Round to the nearest tenth. _____



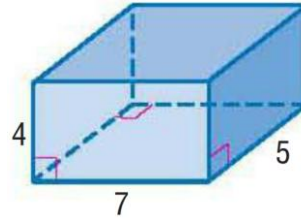
38. Find x if the area of the parallelogram is 780 cm^2 . _____



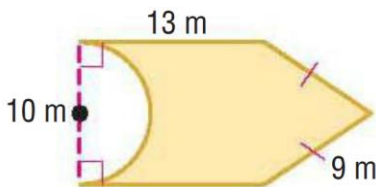
39. Find the area of the trapezoid. Round to the nearest tenth. _____



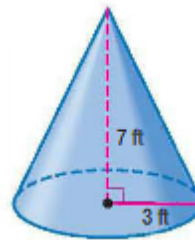
43. Find the surface area and the volume of the rectangular prism
SA _____
V _____



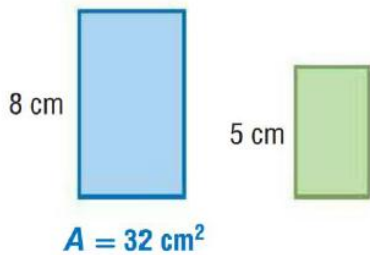
40. Find the area of the figure. Round to the nearest tenth. _____



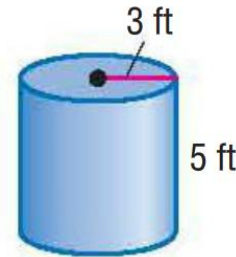
44. Find the surface area and volume of the cone
SA _____
V _____



41. These rectangles are similar. Find the area of the one on the right. Round to the nearest tenth, if necessary. _____

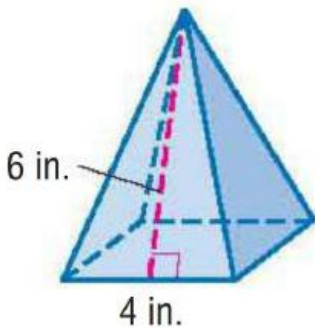


45. Find the surface area and volume of the cylinder
SA _____
V _____



Chapter 12

42. Find the lateral area of the square pyramid. _____



46. The diameter of a sphere is 32 mm. Find the surface area and volume.

SA _____
V _____