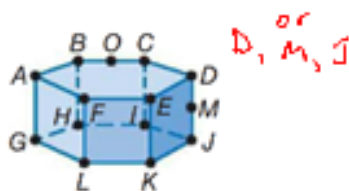


Geometry Final Review

Name Key
Date _____ Period _____

CHAPTER 1

1. Name 3 collinear points B, O, C *various answers*



2. Find AB 5.6



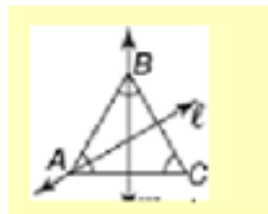
3. Find the distance between $F(5, -6)$, $N(-5, 6)$ 15.6

4. Find the coordinates of the midpoint of a segment with the given endpoints $C(-7, -4)$ and $B(3, 5)$ $(-2, 1/2)$

Chapter 9

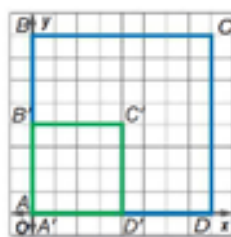
5. Given $A(2, -4)$, what would A' be under a reflection in the line $y = x$? $A' \rightarrow (-4, 2)$

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



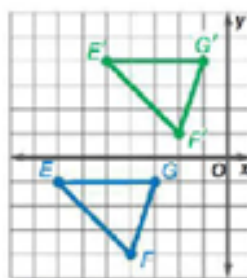
7. What is the image of $A(2, 1)$ under the translation $(3, -1)$ $(5, 0)$

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



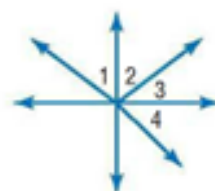
$SF = 1/2$

9. What is the vector that describes the translation? $\langle 2, 5 \rangle$



Chapter 3

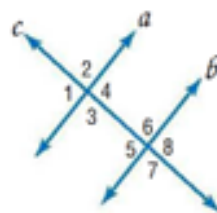
10. Find the measure of each angle if $\angle 2$ and $\angle 3$ are complementary. $\angle 1 \cong \angle 4$ and $m\angle 2 = 28$



$m\angle 1$ 45°
 $m\angle 3$ 62°
 $m\angle 4$ 45°

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

$\angle 6$ and $\angle 3$ Alt Int.
 $\angle 1$ and $\angle 5$ Corresp
 $\angle 4$ and $\angle 6$ Consec Int
 $\angle 2$ and $\angle 7$ Alt Ext



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

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

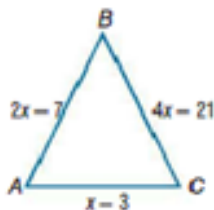
0

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

$y = 3x - 5$

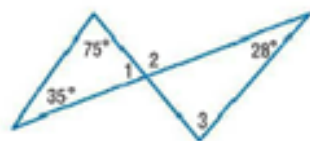
Chapter 4

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



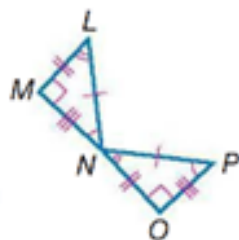
x	<u>7</u>
\overline{AB}	<u>7</u>
\overline{BC}	<u>7</u>
\overline{AC}	<u>4</u>

16. Find measure of each numbered angle



$m\angle 1$	<u>70°</u>
$m\angle 2$	<u>110°</u>
$m\angle 3$	<u>82°</u>

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



$\triangle LMP \cong \triangle NOP$

Chapter 6

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

4140°

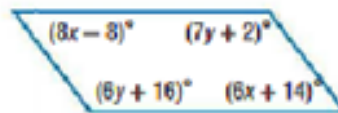
19. Find the sum of the measures of the exterior angles of a convex 15-gon.

360°

20. List the characteristics of a parallelogram.

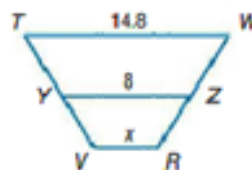
- opp sides parallel
- opp sides \cong
- opp \angle 's \cong
- Consec \angle 's supplementary

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



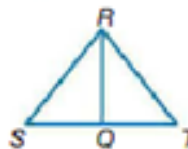
x 11
 y 14

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



1.2

Chapter 5



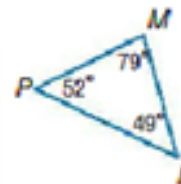
Use this figure for #'s 23-25.

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

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

25. If \overline{RQ} is an altitude, then $m\angle RQS = 90^\circ$

26. What is the longest side of $\triangle LMP$? \overline{PL}

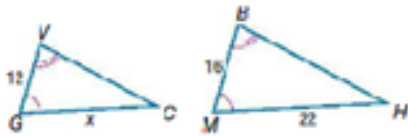


Chapter 7

27. There are 15 plums and 9 apples in a bowl. What is the ratio of apples to plums? 3:5

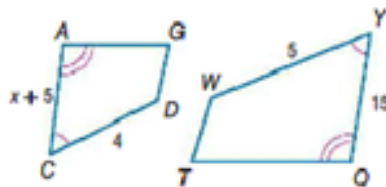
28. If the two triangles are similar, find the value of x .

16.5



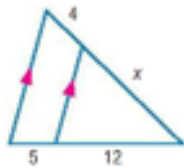
29. The pair of polygons is similar. Find x .

7



30. Find x .

9.6



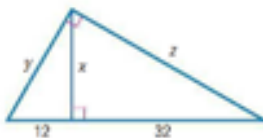
31. A rectangle has a perimeter of 56 yards. A similar rectangle has a perimeter of 84 yards. If the length of the larger rectangle is 30 inches, what is the length of the smaller rectangle? Round to the nearest tenth if necessary.

20 yd

Chapter 8

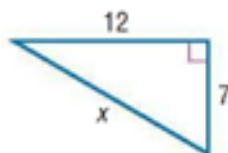
32. Find x , y and z .

$x = 19.6$
 $y = 23.0$
 $z = 37.5$



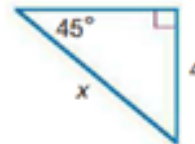
33. Find x .

$\sqrt{193} \approx 13.9$



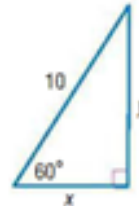
34. Find x .

$4\sqrt{2}$



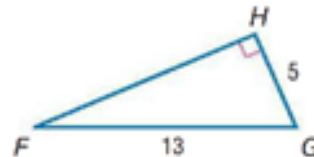
35. Find x and y .

$x = 5$
 $y = 5\sqrt{3}$



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

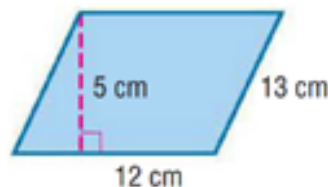
$m\angle G = 67$
 $m\angle F = 23$
 $HF = 12$



Chapter 11

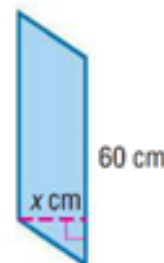
37. Find the area of the parallelogram. Round to the nearest tenth.

60 cm^2

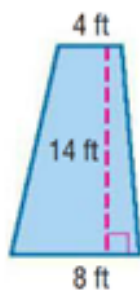


38. Find x if the area of the parallelogram is 780 cm^2 .

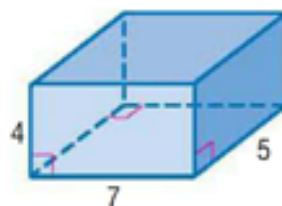
13 cm



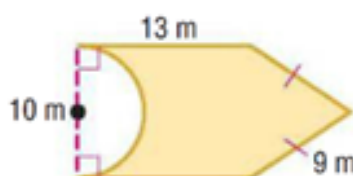
39. Find the area of the trapezoid. Round to the nearest tenth. 84 ft



43. Find the surface area and the volume of the rectangular prism. SA 146 in^2
V 140 in^3



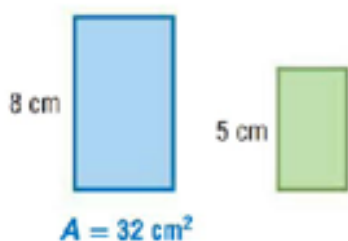
40. Find the area of the figure. Round to the nearest tenth. 128.5



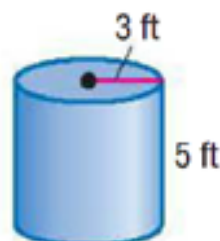
44. Find the surface area and volume of the cone. SA 99.8 ft^2
V 65.9 ft^3



41. These rectangles are similar. Find the area of the one on the right. Round to the nearest tenth, if necessary. 12.5

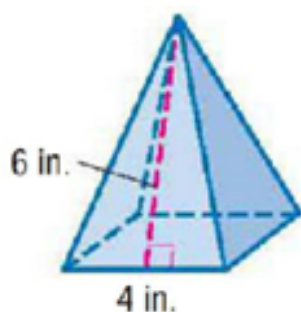


45. Find the surface area and volume of the cylinder. SA 150.8 ft^2
V 1272.3 ft^3



Chapter 12

42. Find the lateral area of the square pyramid. 48 in^2



46. The diameter of a sphere is 32 mm. Find the surface area and volume. SA 3217.0 mm^2
V 17157.3 mm^3