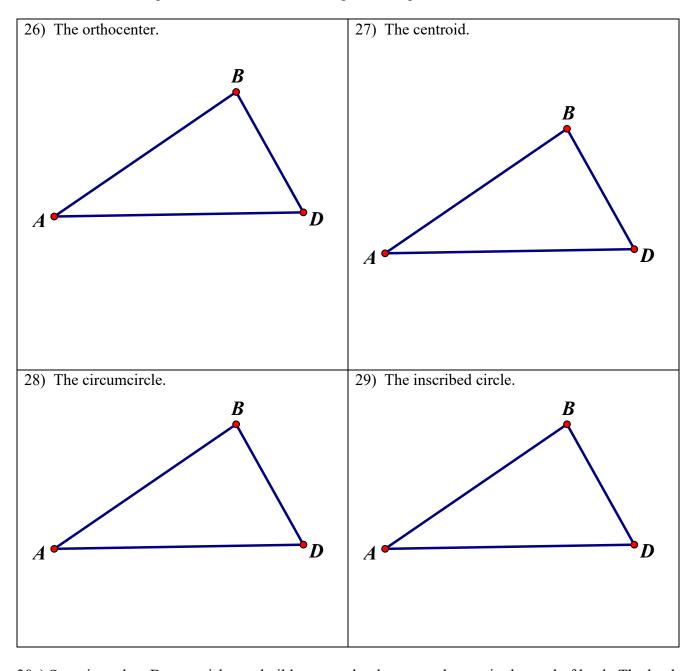
<u>Chapter 6 Review – BEST Geometry</u>

Name:			

Answer each of the following questions in the space provided. SHOW YOUR WORK!

For questions 1-20, match each of the follow	Answers #1-25				
The choices may be used more than once of	1)				
1) Drawing tools	2) Perpendicular Lines	,			
3) Construction tools	4) Altitude of a triangle	2)			
5) Perpendicular Bisector	2)				
7) Segment Bisector	3)				
9) Distance from a point to a line	4)				
11) Concurrent Lines	• /				
13) Angle bisector	5)				
15) Inscribed circle					
17) Point of concurrency	6)				
19) Median of a triangle	18) Midsegment of a triangle20) Circumscribed circle	7)			
() () () () () () () () () ()	,	/)			
a. The point of concurrency of the three		8)			
b. A ray which divides an angle into tw		0)			
c. A segment from a vertex of a triangle	e perpendicular to the line containing	9)			
the opposite side.	.1	10)			
d. A line, segment, or ray intersecting the	· •	11)			
	e. A segment whose endpoints are the midpoints of two sides of a triangle				
f. The largest possible circle within a tr	12)				
g. Coplanar, non-intersecting lines.	12)				
h. Three or more lines intersecting at or	13)				
i. The length of the perpendicular segm	,				
j. A line that contains the centroid, orth	14)				
k. The point of a triangle equidistant fro	15)				
1. Ruler & protractor	15)				
m. A segment joining a vertex of a triang	16)				
n. The point of concurrency of the threeo. A line, segment, or ray intersecting the	,				
perpendicular to the segment.	17)				
p. The point of concurrency of the three	18)				
of a triangle.	,				
q. Lines intersecting to form right angle	19)				
r. The point of intersection of three or r	20)				
s. A circle containing the three vertices	20)				
t. Compass & straightedge.	_	21)			
		,			
Fill in the blank.	22)				
21) The largest side of a triangle is opposite	23)				
22) The of a triangle is also ca					
23) The shortest distance from a point to a l	24)				
24) A midsegment of a triangle is parallel to	25)				
triangle.	25)				
25) The three midsegments of a triangle for					

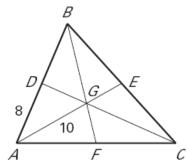


30a) Superintendent Dotres wishes to build a new school on a newly acquired parcel of land. The land is in the form of triangle with three main roads on each side. He wants the new school to be the same distance from each of three main roads. What point of concurrency should he find for the new school's location?

30a)_______
30b) An amusement park owner wants to place a garbage can equidistant from the entrances to three main rides – the Gravitron, the Crazy Mouse roller coaster and the bumper cars. What point of concurrency should the amusement park owner find?

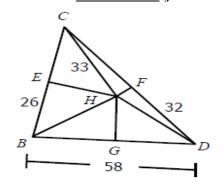
30b)_______

Point G is the <u>centroid</u> of \triangle ABC, AD = 8, AG = 10, BE = 10 and CD = 18. Find each measure.



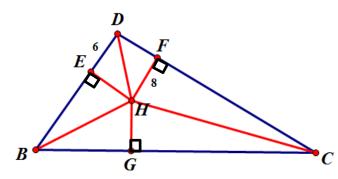
- 31) BC = ____
- 32) CG = ____
- 33) GE = _____
- 34) EA = ____
- 35) GD = _____

Point H is the <u>circumcenter of $\triangle BCD$ </u>. Find each measure. Round any decimal answers to the nearest tenth.



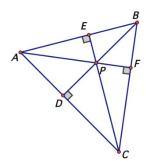
- 36) CD = _____
- 37) CE = _____
- 38) HD = _____
- 39) HG = _____

Point H is the <u>incenter</u> of $\triangle BCD$. Find each measure. Round any decimal answers to the nearest tenth.



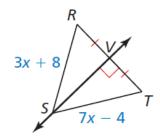
- 40) EH = _____
- 41) HG = _____
- 42) HD = _____
- 43) DF = _____
- 44) $m \angle GBE = 46^{\circ}$. What is $m \angle BHE$?

46) Point P is the point of concurrency of the three altitudes of $\triangle ABC$. BP = 61mm, PF = 11mm. Find BF.



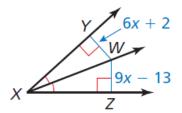
Find the indicated measurement/value in each problem below.

47) ST



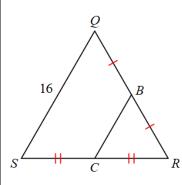
48)

WY

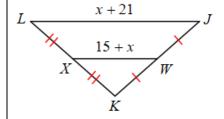


49)

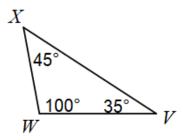
Find BC



50) Solve for x.



51) Order the sides from shortest to longest.



52) Order the angles from smallest to largest.

