Name _____ E 69

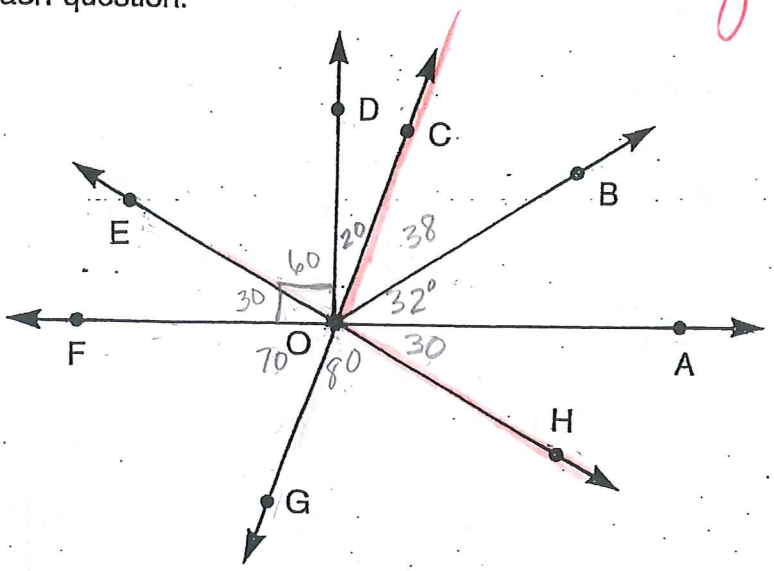
Use with text pages 182-183.

Intersecting Lines

Key

Use the diagram to answer each question.

$m\angle AOB = 32°$
$m\angle COD = 20°$
$m\angle GOH = 80°$
$m\angle DOF = 90°$



1. Name the perpendicular lines.

$\overline{FA}$ and $\overline{DO}$

2. $\angle DOE$ is adjacent to which angle?

$\angle EOF$ and $\angle DOC$

3. Which angle is the complement of $\angle DOE$?

$\angle EOF$

4. Which angle is the supplement of $\angle COE$?

$\angle EOG$

5. $m\angle DOE =$ 60°

6. $m\angle EOF =$ 30°

7. $\angle FOE$ and which angle are vertical angles?

$\angle AOH$

8. $\angle COH$ and which angle are vertical angles?

$\angle EOG$

9. $m\angle COB =$ 38°

10. $m\angle AOH =$ 30°

11. $m\angle FOG =$ 70° 180 − 110

12. $m\angle FOA =$ 180°

13. Does the m $\angle EOF$ + m$\angle FOG$ equal the measure of a right angle?

no

14. Does the m$\angle DOE$ + m$\angle EOF$ + m$\angle FOG$ equal the measure of a straight angle?

Yes

15. $m\angle BOE =$ 118°

16. $m\angle BOG =$ 218°

Name _____ **E 67**

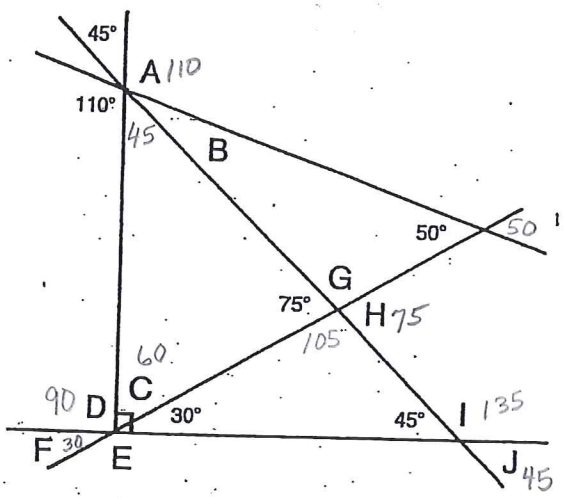
Use with text pages 178-179.

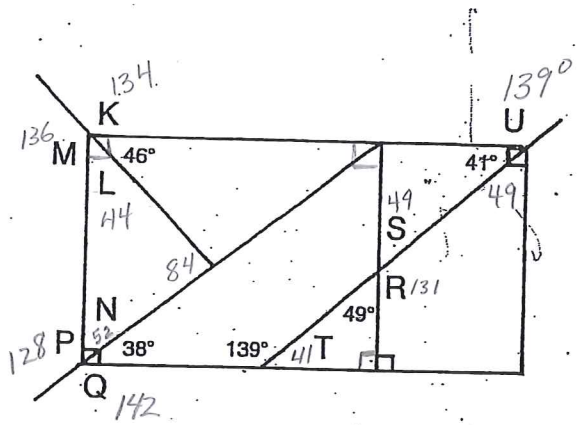
Angles

Key

Who was the first American woman doctor?

Without measuring, find the measure for each angle. Write the corresponding letter above each measure in the code.





1. m∠A	110°	W	2. m∠B	25°	C	3. m∠C	60°	Z
4. m∠D	90°	L	5. m∠E	150°	B	6. m∠F	30°	T
7. m∠G	105°	H	8. m∠H	75°	D	9. m∠I	135°	L
10. m∠J	45°	E	11. m∠K	134°	K	12. m∠L	44°	I
13. m∠M	136°	A	14. m∠N	52°	L	15. m∠P	128°	E
16. m∠Q	142°	B	17. m∠R	131°	L	18. m∠S	49°	R
19. m∠T	41°	A	20. m∠U	139°	E			

D	R	E	L	I	Z	A	B	E	T	H
75°	49°	45°	90°	44°	60°	41°	142°	128°	30°	105°

B	L	A	C	K	W	E	L	L
150°	52°	136°	25°	134°	110°	139°	135°	131°

Name _____ C 11

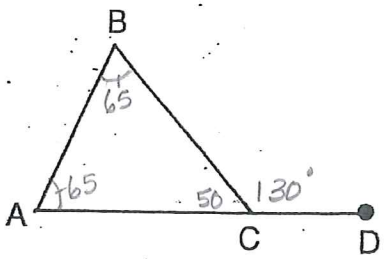
Use with text pages 186-187.

Polygons

Key

Find the missing angle measures in the polygons below.

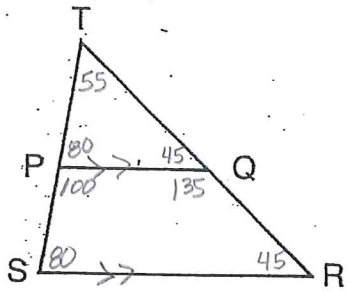
1.



$\angle A \cong \angle B$
$m\angle B = 65°$

$m\angle A =$ 65°
$m\angle BCA =$ 50°
$m\angle BCD =$ 130°

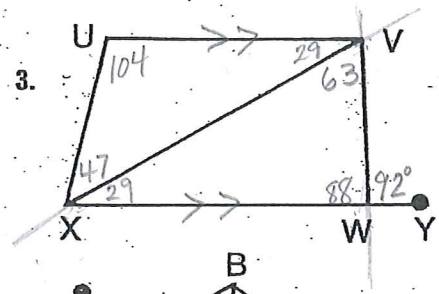
2.



$m\angle T = 55°$
$m\angle PQR = 135°$
$\overline{PQ} \parallel \overline{SR}$

$m\angle R =$ 45°
$m\angle S =$ 80°
$m\angle SPQ =$ 100°

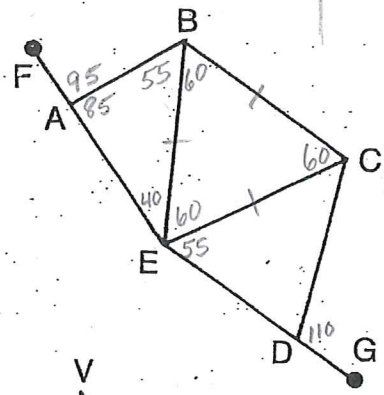
3.



$m\angle VWY = 92°$
$m\angle XVW = 63°$
$m\angle UXV = 47°$
$\overline{UV} \parallel \overline{XY}$

$m\angle UVX =$ 29°
$m\angle VXW =$ 29°
$m\angle U =$ 104°
$m\angle XWV =$ 88°

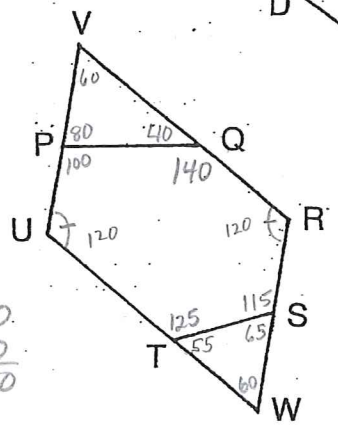
4.



$m\angle FAB = 95°$
$m\angle AEB = 40°$
$m\angle CDG = 110°$
$m\angle CED = 55°$
$\triangle BCE$ is equilateral

$m\angle ABE =$ 55°
$m\angle BCE =$ 60°
$m\angle EBC =$ 60°

5.



360
+360
720

$m\angle V = 60°$
$m\angle PQR = 140°$
$m\angle UTS = 125°$
$m\angle W = 60°$
$m\angle TUP = m\angle SRQ$

$m\angle QPU =$ 100°
$m\angle RST =$ 115°
$m\angle U =$ 120°
$m\angle R =$ 120°