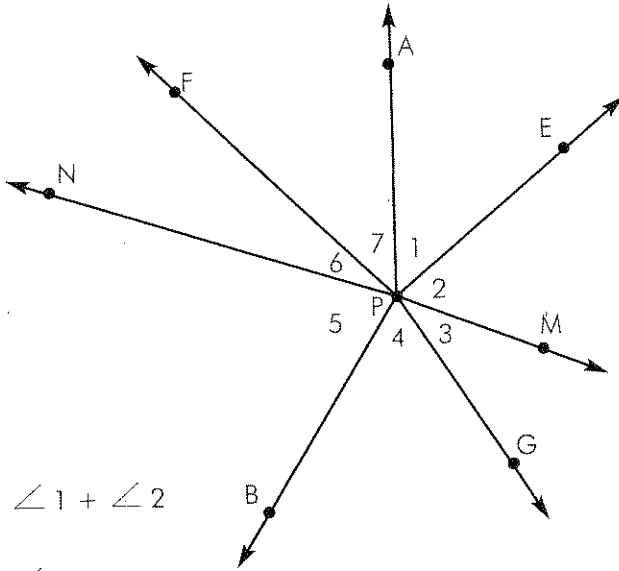


How do you make an egg laugh?

Match following angles and pictures. The answer to each problem will match a letter that will allow you to figure out the joke.

Name the following angles using 3 letters.

1. $\angle 1$
2. $\angle 3$
3. $\angle 6$
4. $\angle 2 + \angle 3$
5. $\angle 4 + \angle 5$
6. $\angle 6 + \angle 7 + \angle 1 + \angle 2$
7. $\angle 2 + \angle 3 + \angle 4$



P is the point of intersection.

- L. $\angle EPB$
- E. $\angle EPM$
- L. $\angle MPN$
- T. $\angle EPG$
- L. $\angle APE$
- I. $\angle GPN$
- A. $\angle MPG$
- R. $\angle FPG$
- O. $\angle FPN$
- M. $\angle EMP$

Identify the following using their symbol.

- 8.
- 9.
- 10.
- 11.

- Y.
- T.
- F.
- K.
- E.
- S.

4 9 1 6 5 8 2 11 3 7 10

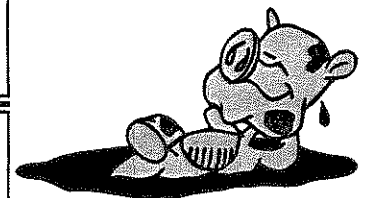
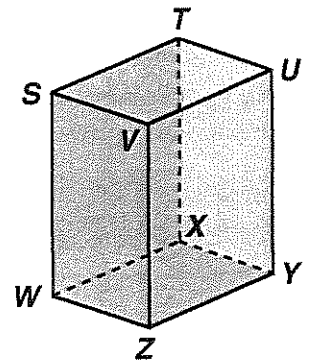
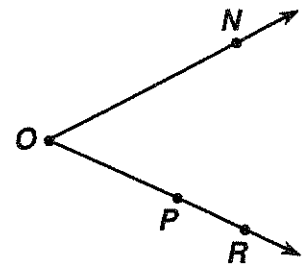
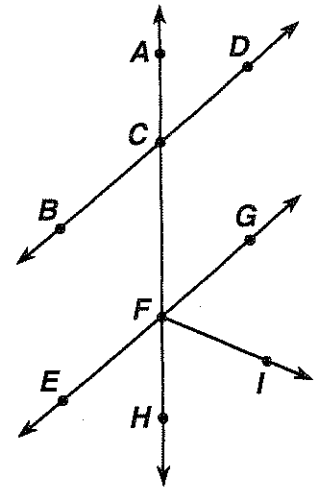


Where In the House Does Farmer John Keep His Pigs?

Indicate whether the statement is true or false by circling the appropriate letter. Write this letter in the box containing the exercise number. If the statement is false, explain why.

Use the figures below.

T	F	
K	I	1. A, C, E, and F are all points on \overleftrightarrow{AH} . <i>If false, why?</i>
P	S	2. \overleftrightarrow{BD} intersects \overleftrightarrow{AH} at F. <i>If false, why?</i>
E	V	3. \overleftrightarrow{EF} , \overleftrightarrow{GE} , and \overleftrightarrow{FG} are all names for the same line. <i>If false, why?</i>
H	N	4. \overline{CF} , \overline{HC} , and \overline{FG} are all line segments that lie on \overleftrightarrow{AH} . <i>If false, why?</i>
L	D	5. \overrightarrow{HF} , \overrightarrow{HC} , and \overrightarrow{HA} are all names for the same ray. <i>If false, why?</i>
O	I	6. \overrightarrow{AH} and \overrightarrow{HA} are two names for the same ray. <i>If false, why?</i>
U	A	7. \overrightarrow{AH} and \overrightarrow{CH} are two names for the same ray. <i>If false, why?</i>
F	E	8. \overleftrightarrow{EG} and \overleftrightarrow{CF} are parallel lines. <i>If false, why?</i>
S	T	9. $\angle NOR$, $\angle PON$, and $\angle O$ are all names for the same angle. <i>If false, why?</i>
O	I	10. $\angle RON$ and $\angle NRO$ are two names for the same angle. <i>If false, why?</i>
R	B	11. \overrightarrow{ON} and \overrightarrow{OR} are two rays with the same endpoint. <i>If false, why?</i>
N	D	12. The faces of a rectangular prism are in 6 different planes. <i>If false, why?</i>
R	C	13. A rectangular prism has 8 vertices and 10 edges. <i>If false, why?</i>
M	H	14. \overleftrightarrow{ST} , \overleftrightarrow{VU} , \overleftrightarrow{XY} , and \overleftrightarrow{UW} are parallel. <i>If false, why?</i>
L	N	15. \overleftrightarrow{ST} and \overleftrightarrow{VZ} are neither parallel nor intersecting. <i>If false, why?</i>
T	W	16. Planes ZWX and STX intersect in \overleftrightarrow{TY} . <i>If false, why?</i>



10	4	14	6	2	9	16	1	12	3	13	8	15	5	7	11
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How do you clean all the mice out of your pores?

Solve for the missing lengths. To figure out the joke, place the letter of each problem above the answer on the line(s) below. Some blanks will go unfilled.

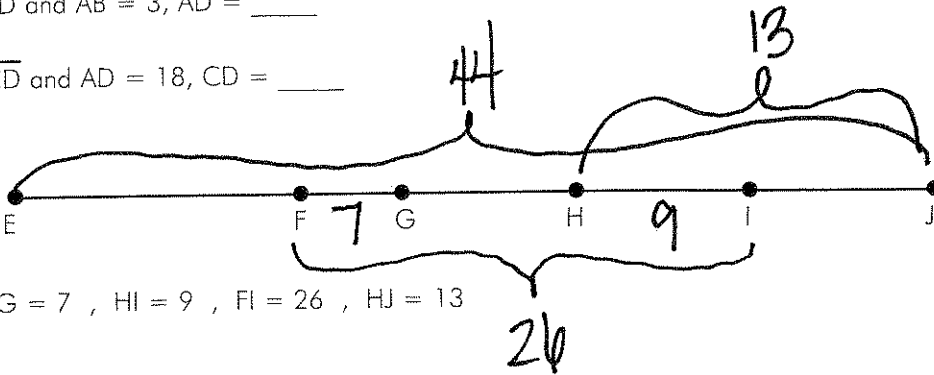


1. A. If $AB = 5$, $AC = \underline{\hspace{2cm}}$

2. H. If $BD = 11$, $CD = \underline{\hspace{2cm}}$

3. E. If $\overline{AB} \cong \overline{CD}$ and $AB = 3$, $AD = \underline{\hspace{2cm}}$

4. I. If $\overline{AB} \cong \overline{CD}$ and $AD = 18$, $CD = \underline{\hspace{2cm}}$



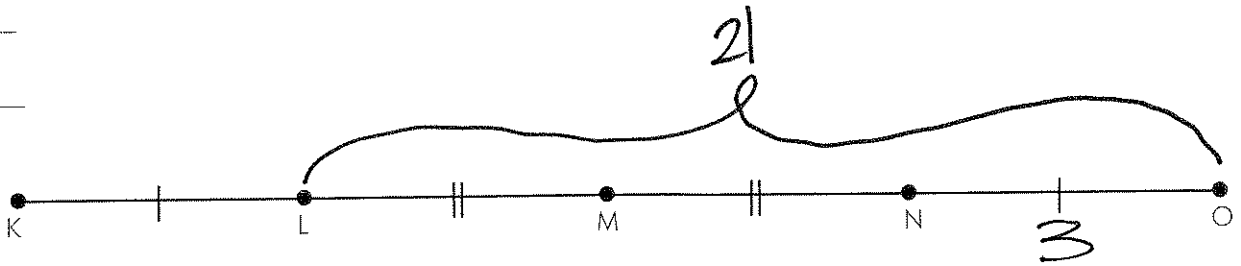
$EJ = 44$, $FG = 7$, $HI = 9$, $FI = 26$, $HJ = 13$

5. D. $GH = \underline{\hspace{2cm}}$

6. J. $IJ = \underline{\hspace{2cm}}$

7. S. $FJ = \underline{\hspace{2cm}}$

8. U. $EF = \underline{\hspace{2cm}}$



$NO = 3$, $LO = 21$

9. O. $KL = \underline{\hspace{2cm}}$

10. P. $MN = \underline{\hspace{2cm}}$

11. W. $KN = \underline{\hspace{2cm}}$

12. M. $KO = \underline{\hspace{2cm}}$

21 4 6 5 8 11 15 24 3 14 30 12 18 9 11 10

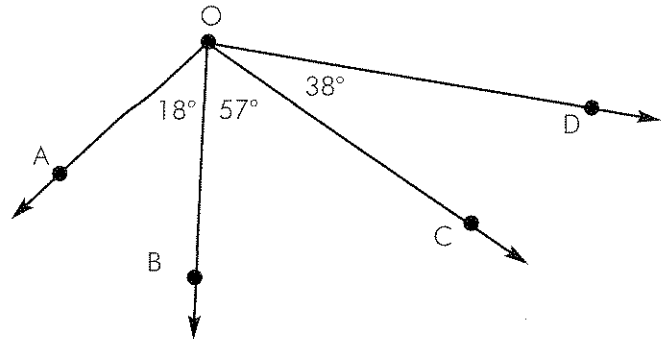
What did the philosophical pig say?

Solve for the missing angle measures. To figure out the joke, place the letter of each problem above the answer on the line(s) below. Some blanks will go unfilled.

1. $m\angle BOD = \underline{\hspace{2cm}}$

2. $m\angle AOC = \underline{\hspace{2cm}}$

3. $m\angle AOD = \underline{\hspace{2cm}}$



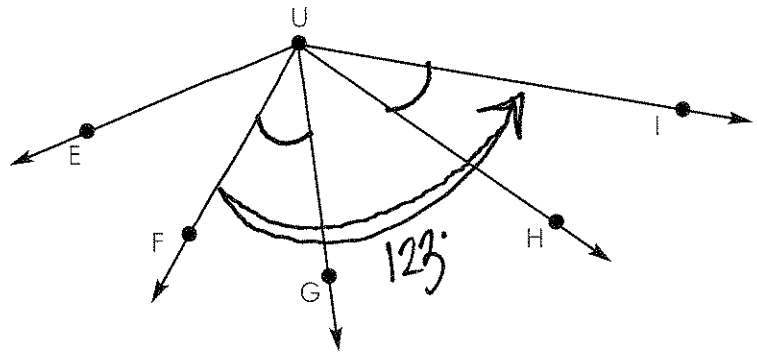
$\angle FUG \cong \angle HUI$ and $m\angle FUI = 123^\circ$

4. $m\angle FUG = 31^\circ$, $m\angle GUH = \underline{\hspace{2cm}}$

5. $m\angle GUI = \underline{\hspace{2cm}}$

6. $m\angle EUH = 129^\circ$, $m\angle EUF = \underline{\hspace{2cm}}$

7. $m\angle EUI = \underline{\hspace{2cm}}$



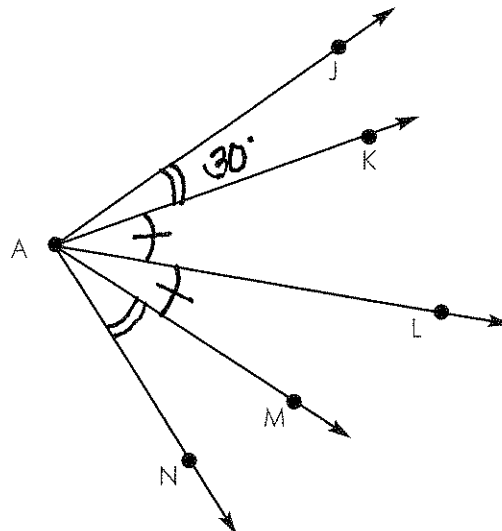
8. $m\angle MAN = \underline{\hspace{2cm}}$

9. If $m\angle JAM = 110^\circ$, $m\angle LAM = \underline{\hspace{2cm}}$

10. $m\angle KAM = \underline{\hspace{2cm}}$

11. $m\angle JAN = \underline{\hspace{2cm}}$

12. $m\angle KAN = \underline{\hspace{2cm}}$



$\angle JAK \cong \angle MAN$, $\angle KAL \cong \angle LAM$, $m\angle JAK = 30^\circ$

40° 23° 80° 61° 40° 110° 30° 5° 61° 140° 37° 113° 37° 160° 75° 113° 37° 8° 40° 49° 140° 95° 92°