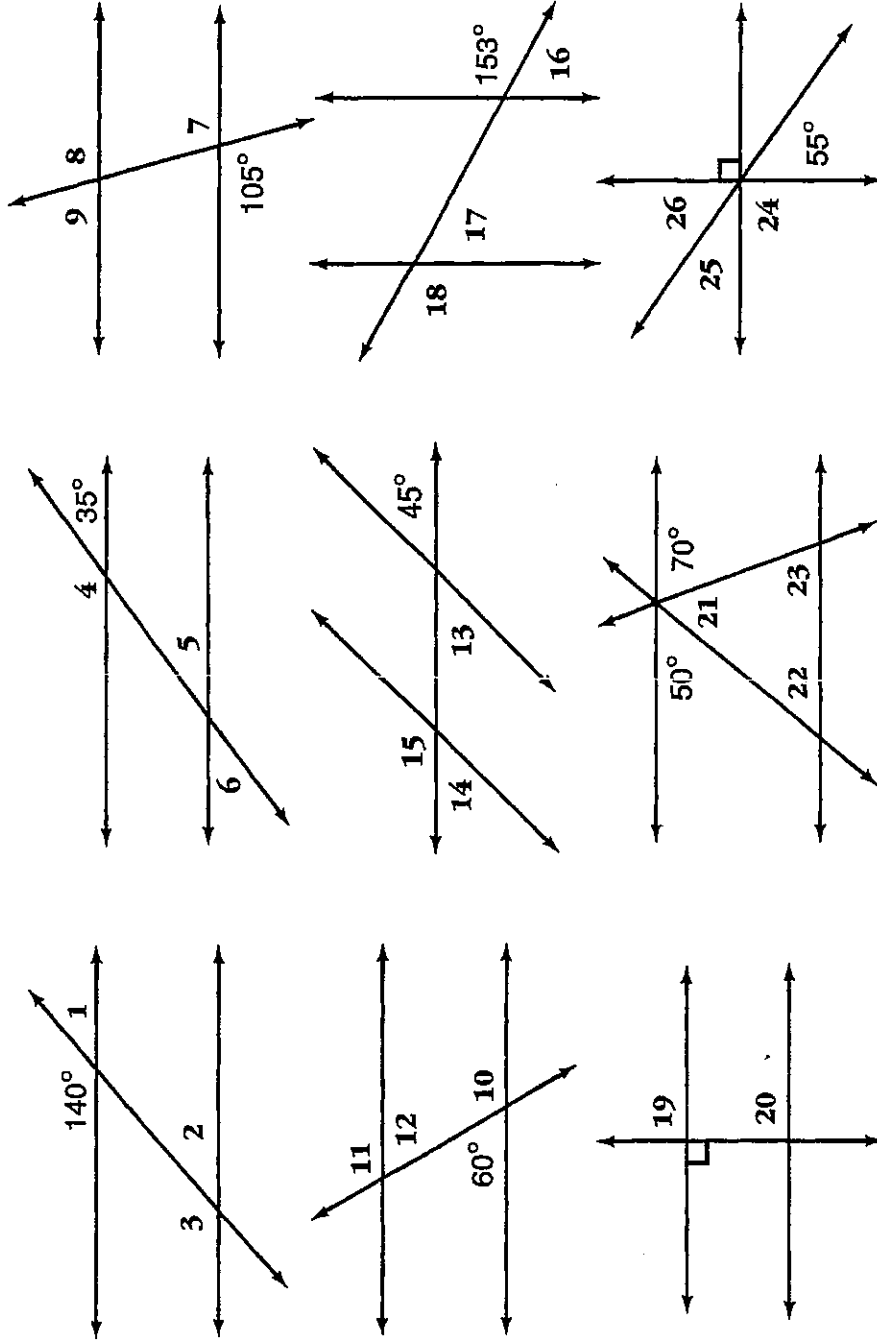


# Why Couldn't the Two Elephants Go Swimming Together?

Give the measure of each numbered angle. Find your answer in the Code Key and notice the letter next to it. Write this letter in the box containing the number of the angle. (Assume that lines in each figure that do not intersect are parallel.)

CODE KEY	
27°	A
35°	O
40°	R
45°	Y
50°	I
55°	P
60°	T
70°	U
75°	F
90°	N
105°	H
120°	E
135°	K
140°	L
145°	S
153°	D



12	7	10	14	8	16	18	6	20	3	13	25	19	11	26	17	22	1	5	9	21	2	23	24	15	4
----	---	----	----	---	----	----	---	----	---	----	----	----	----	----	----	----	---	---	---	----	---	----	----	----	---

# What Do You Get When You, , ,

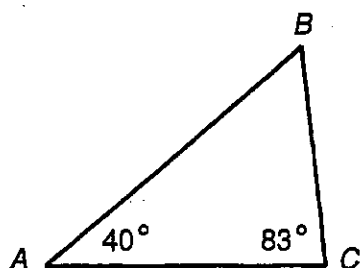
1. Cross two ducks with a match?

Answer:  $\overline{37^\circ} \overline{57^\circ} \overline{99^\circ} \overline{67^\circ} \overline{104^\circ} \overline{76^\circ} \overline{59^\circ} \overline{113^\circ} \overline{42^\circ} \overline{53^\circ} \overline{67^\circ} \overline{99^\circ} \overline{18^\circ}$

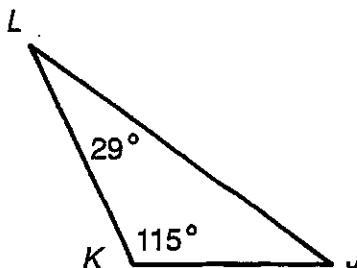
2. Cross a stick of dynamite with a lemon pie?

Answer:  $\overline{113^\circ} \overline{68^\circ} \overline{63^\circ} \overline{34^\circ} \overline{34^\circ} \overline{54^\circ} \overline{38^\circ} \overline{54^\circ} \overline{67^\circ} \overline{99^\circ} \overline{57^\circ} \overline{90^\circ} \overline{36^\circ} \overline{59^\circ} \overline{67^\circ}$

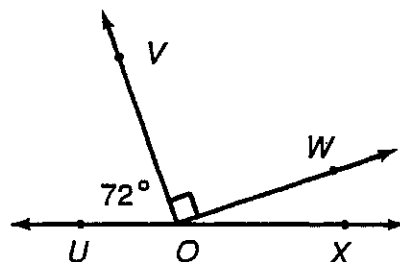
Find the angle measures indicated. Look for each answer in the code. Each time the answer appears, write the letter of the exercise above it.



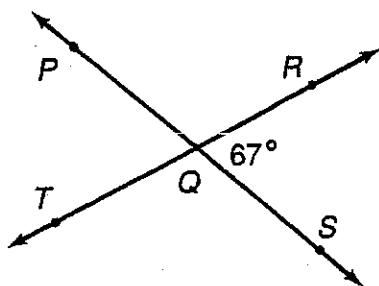
(I)  $m\angle B =$



(G)  $m\angle L =$

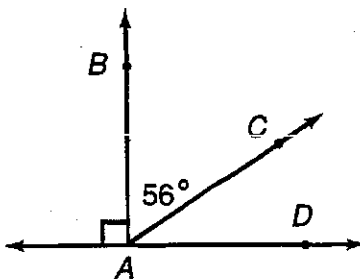


(S)  $m\angle WOX =$



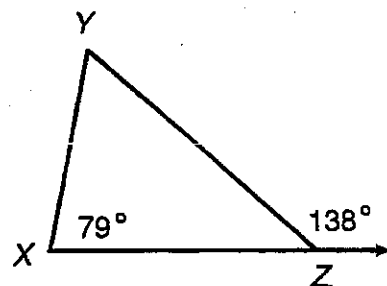
(A)  $m\angle PQR =$

(E)  $m\angle PQT =$



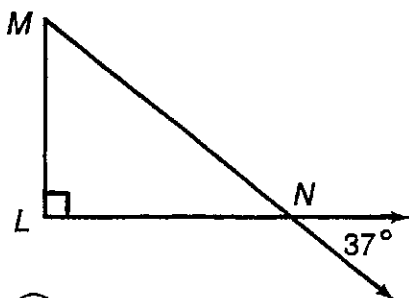
(N)  $m\angle DAB =$

(O)  $m\angle DAC =$



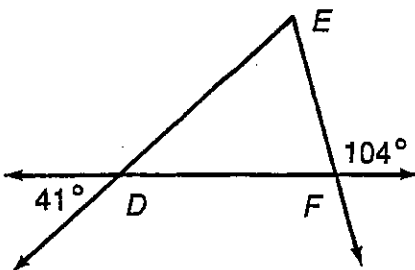
(C)  $m\angle XZY =$

(U)  $m\angle Y =$



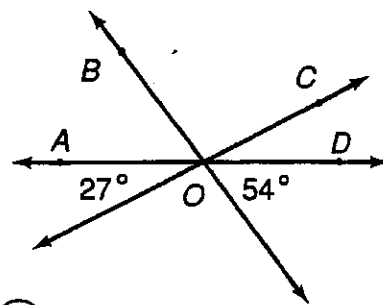
(F)  $m\angle MNL =$

(K)  $m\angle M =$



(Q)  $m\angle EFD =$

(B)  $m\angle E =$



(M)  $m\angle AOB =$

(R)  $m\angle BOC =$



# Why Didn't Krok Like to Go Sailing With the Baseball Uniform Designer?



Simplify each expression below and find your answer in the corresponding answer column. Write the letter of the exercise in the box that contains the number of the answer.

- (L)  $\sqrt{8}$
- (I)  $\sqrt{45}$
- (A)  $\sqrt{50}$
- (T)  $\sqrt{12}$
- (O)  $\sqrt{98}$
- (S)  $\sqrt{48}$
- (E)  $\sqrt{125}$
- (A)  $\sqrt{20}$
- (S)  $\sqrt{72}$
- (Y)  $\sqrt{63}$
- (E)  $\sqrt{144}$
- (W)  $\sqrt{32}$
- (D)  $\sqrt{75}$
- (A)  $\sqrt{200}$

- (18)  $7\sqrt{2}$
- (14)  $5\sqrt{5}$
- (12)  $2\sqrt{2}$
- (4)  $5\sqrt{2}$
- (28)  $4\sqrt{3}$
- (20)  $2\sqrt{3}$
- (25)  $3\sqrt{5}$
- (8)  $3\sqrt{7}$
- (1)  $6\sqrt{2}$
- (7)  $10\sqrt{2}$
- (6)  $4\sqrt{2}$
- (22)  $2\sqrt{5}$
- (27) 12
- (15)  $5\sqrt{3}$

- (S)  $5\sqrt{18}$
- (U)  $3\sqrt{28}$
- (A)  $2\sqrt{1000}$
- (P)  $\sqrt{1,000,000}$
- (E)  $3\sqrt{128}$
- (K)  $8\sqrt{27}$
- (L)  $4\sqrt{80}$
- (H)  $-3\sqrt{54}$
- (A)  $-7\sqrt{40}$
- (B)  $-8\sqrt{121}$
- (S)  $2\sqrt{500}$
- (T)  $-4\sqrt{24}$
- (Z)  $3\sqrt{175}$
- (C)  $5\sqrt{108}$

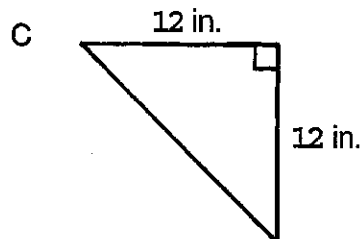
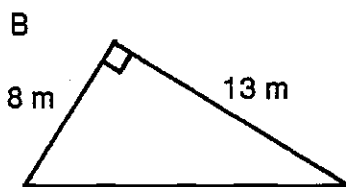
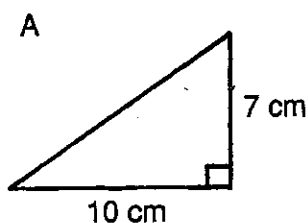
- (19)  $6\sqrt{7}$
- (13)  $24\sqrt{3}$
- (3)  $24\sqrt{2}$
- (9)  $15\sqrt{2}$
- (5)  $16\sqrt{5}$
- (23) 1000
- (16)  $20\sqrt{10}$
- (10)  $-8\sqrt{6}$
- (21)  $30\sqrt{3}$
- (11)  $-14\sqrt{10}$
- (24)  $20\sqrt{5}$
- (26)  $15\sqrt{7}$
- (2)  $-9\sqrt{6}$
- (17)  $-88$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

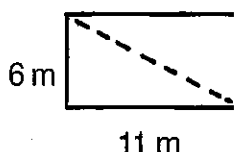
# How Would You Describe a Dead Skunk?

Round each answer to the nearest tenth (if necessary). Find each answer at the bottom of the page and cross out the letter above it. When you finish, the answer to the title question will remain.

- ① Find the length of the hypotenuse of each right triangle.



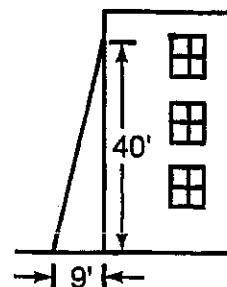
- ② A rectangle is 6 m wide and 11 m long. How long is the diagonal of the rectangle?



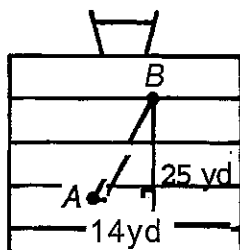
- ⑥ Kristin and her family left their campsite for a hike. They hiked 5 mi west and then 2 mi north. How far were they from the campsite?

- ③ A television screen may be described in terms of the diagonal measure of its screen. If a TV screen is 20 in. wide and 15 in. high, what is the length of its diagonal?

- ⑦ The window of a burning building is 40 feet above the ground. The base of a ladder is placed 9 feet from the building. How long must the ladder be to reach the window?



- ④ A quarterback at point A throws the football to a receiver who catches it at point B. How long was the pass?



- ⑧ The bases on a baseball diamond are 90 feet apart. How far is it from home plate to second base?

- ⑤ A rope is stretched from the top of a 7-foot tent pole to a point on the ground 12 ft from the base of the pole. How long is the rope?

- ⑨ The lawn in front of Pythagoras Jr. High is in the shape of a rectangle 24 m long and 10 m wide. How many meters shorter is your walk if you walk diagonally across the lawn rather than along two sides of it?

D	E	S	A	X	D	T	N	O	I	S	N	T	A	C	K	T	E
5.4 i	29. yd	15. m	8 m	13.2 m	12.5 m	16.7 in.	41 ft	12.2 cm	6.1 mi	13.9 ft	42.5 ft	127.3 f	28.7 yd	14.4 ft	17.0 in.	129.8 tf	25 in.