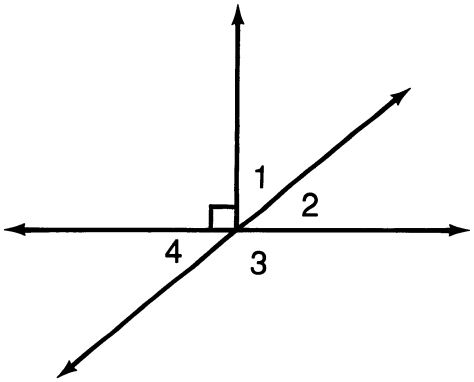
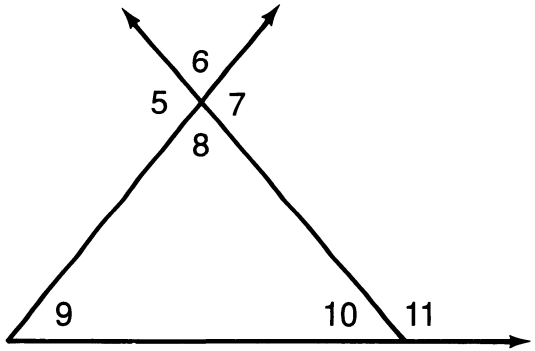
Daffynition Decoder

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





Warehouse: 105° 40° 36° 78° 151° 55° 45° 146° 36° 151° 105° 40° 135° 42° 34° 55° 146° 78°

Explain: 42° 55° 78° 146° 116° 56° 36° 74° 29° 34° 135° 100° 55° 56° 60° 56° 98° 135° 100°

(H) If $m\angle 1 = 50°$, then $m\angle 2 =$

(F) If $m\angle 3 = 120°$, then $m\angle 4 =$

(O) If $m\angle 2 = 35°$, then $m\angle 1 =$

(E) If $m\angle 4 = 45°$, then $m\angle 3 =$

(B) If $m\angle 6 = 29°$, then $m\angle 8 =$

(Y) If $m\angle 6 = 29°$, then $m\angle 5 =$

(C) If $m\angle 5 = 116°$, then $m\angle 7 =$

(I) If $m\angle 8 = 82°$, then $m\angle 7 =$

(A) If $m\angle 11 = 144°$, then $m\angle 10 =$

(N) If $m\angle 8 = 78°$ and $m\angle 9 = 60°$, then $m\angle 10 =$

(D) If $m\angle 9 = 47°$ and $m\angle 10 = 33°$, then $m\angle 8 =$

(U) If $m\angle 10 = 45°$ and $m\angle 8 = 90°$, then $m\angle 9 =$

(M) If $m\angle 6 = 66°$ and $m\angle 9 = 40°$, then $m\angle 10 =$

(T) If $m\angle 11 = 130°$ and $m\angle 9 = 52°$, then $m\angle 8 =$

(W) If $m\angle 8 = 81°$ and $m\angle 9 = 24°$, then $m\angle 11 =$

(R) If $m\angle 2 = 56°$, then $m\angle 4 =$

(L) If $m\angle 1 = 56°$, then $m\angle 4 =$

(S) If $m\angle 1 = 56°$, then $m\angle 3 =$

What Do You Call It When 50 People Stand on a Wooden Dock?

Cross out the letters above each correct answer. When you finish, write the remaining letters in the spaces at the bottom of the page.

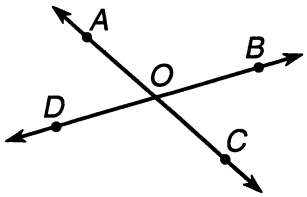
In Exercises 1-4, fill in the blank.

1. If the sum of the measures of two angles is 180°, the angles are _____.

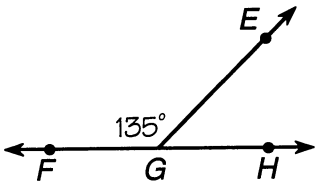
2. If the sum of the measures of two angles is 90°, the angles are _____.

3. When two angles in a plane share a vertex and a side but no common interior points, they are called _____ angles. Example: $\angle AOB$ and $\angle AOD$.

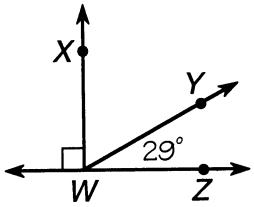
4. When two lines intersect, they form two pairs of "opposite" angles called _____ angles. Example: $\angle AOB$ and $\angle COD$.



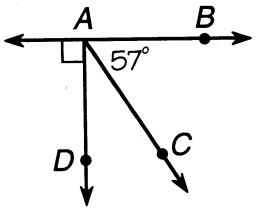
In Exercises 5-14, use the given angle measures to find the required ones.



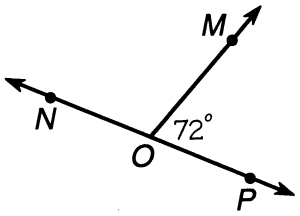
5. $m\angle EGH$



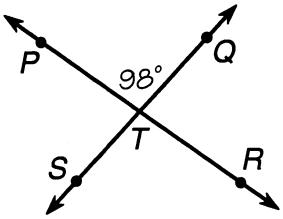
6. $m\angle XWY$



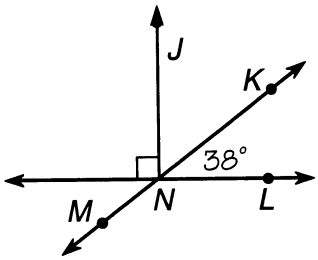
7. $m\angle DAC$



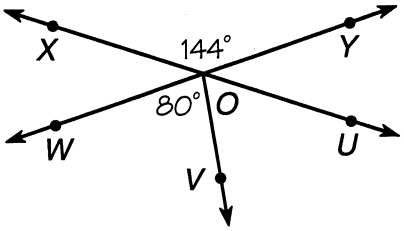
8. $m\angle MON$



9. $m\angle STR$ **10.** $m\angle PTS$



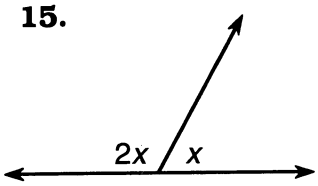
11. $m\angle JNK$ **12.** $m\angle MNL$



13. $m\angle YOU$ **14.** $m\angle UOV$

In Exercises 15-18, use an algebraic equation to find the measure of the angle labeled *x*.

15.



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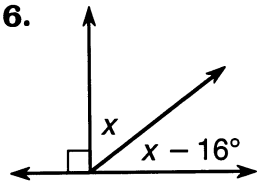

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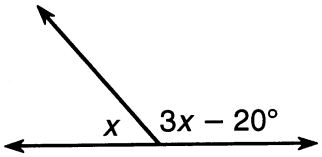
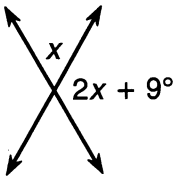


18.



IT vertical	**TH** 64°	**EY** 52°	**DO** 61°	**PI** 55°	**LE** 57°	**CK** 108°	**UP** 82°	**ER** 39°	**AN** 53°	**PR** 107°	**OP** supplementary
AN adjacent	**IC** 98°	**ES** 137°	**IT** 60°	**ON** 45°	**EE** 142°	**SU** 28°	**RF** 50°	**DO** 33°	**RE** 48°	**CK** 36°	**EN** complementary