Student Name: _____ Score:

# Find the Supplement

(adds to )

| Angle | Supplement | Angle | Supplement |
|---|---|---|---|
| $125^0$ | | $142^0$ | |
| $42^0$ | | $99^0$ | |
| $75^0$ | | $106^0$ | |
| $54^0$ | | $45^0$ | |
| $178^0$ | | $111^0$ | |
| $150^0$ | | $5^0$ | |
| $25^0$ | | $168^0$ | |
| $12^0$ | | $100^0$ | |
| $90^0$ | | $64^0$ | |
| $37^0$ | | $81^0$ | |
| $164^0$ | | $137^0$ | |
| $175^0$ | | $60^0$ | |

Student Name: _____ Score:

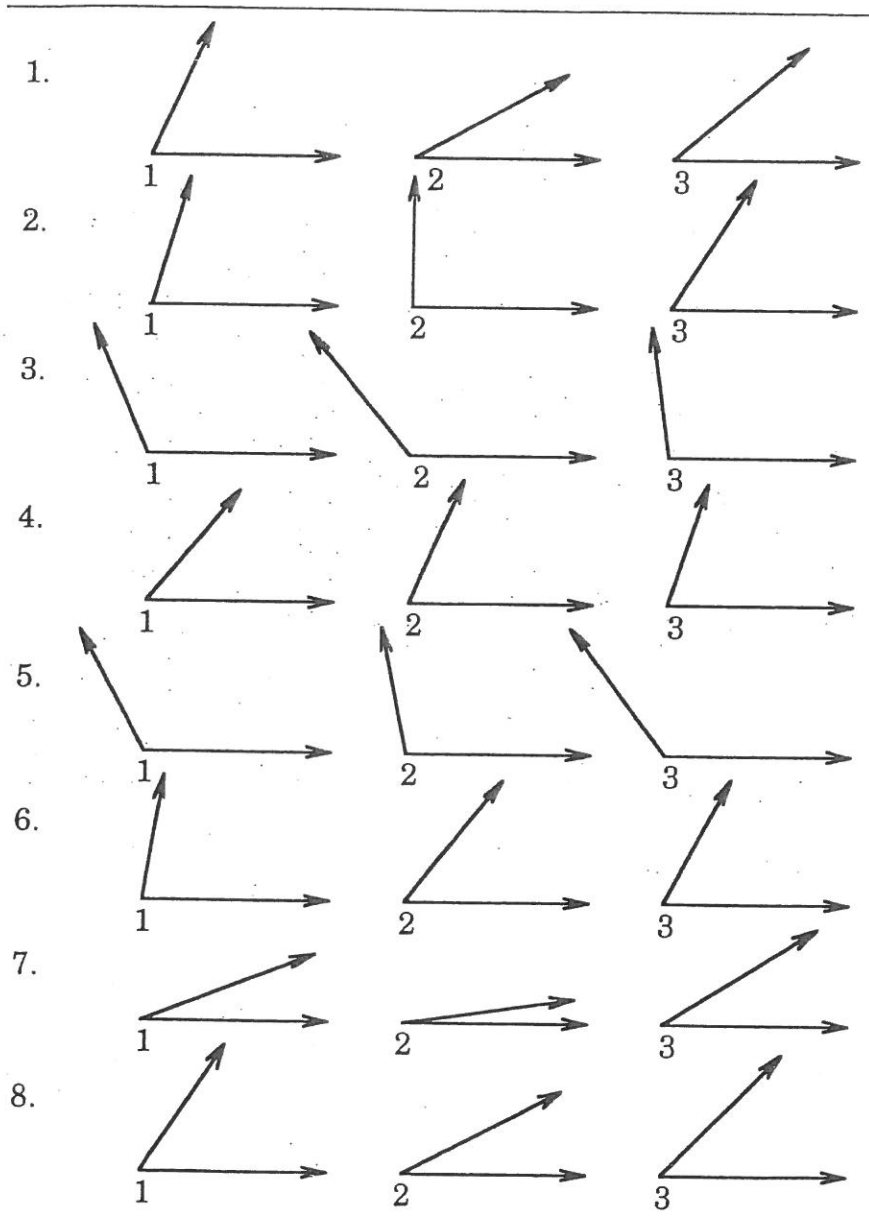
# Find the Complement

(adds to)

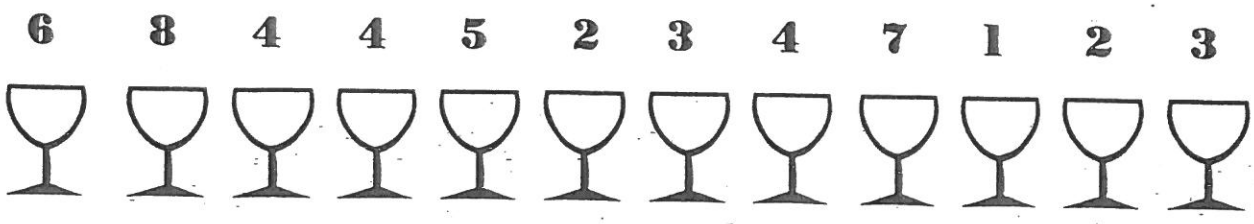
| Angle | Complement | Angle | Complement |
|---|---|---|---|
| $45^0$ | | $72^0$ | |
| $23^0$ | | $14^0$ | |
| $64^0$ | | $82^0$ | |
| $12^0$ | | $70^0$ | |
| $88^0$ | | $1^0$ | |
| $75^0$ | | $28^0$ | |
| $5^0$ | | $15^0$ | |
| $37^0$ | | $30^0$ | |
| $56^0$ | | $85^0$ | |
| $8^0$ | | $38^0$ | |
| $79^0$ | | $42^0$ | |
| $60^0$ | | $50^0$ | |

# WHAT IS THE DEFINITION OF A MERMAID?

Place each group of 3 angles below in order from largest to smallest. Look for the correct order in the right hand columns and circle it. Notice the letter next to each correct order. Write that letter below the number of the question in the puzzle shown below.




| | | |
|---|---|---|
| 123 – A | 132 – I | 321 – E |
| 213 – S | 312 – T | 231 – W |
| 123 – M | 231 – G | 213 – H |
| 123 – A | 312 – H | 321 – E |
| 312 – P | 321 – S | 213 – P |
| 123 – T | 132 – A | 213 – O |
| 123 – M | 321 – G | 312 – F |
| 123 – R | 132 – D | 213 – B |

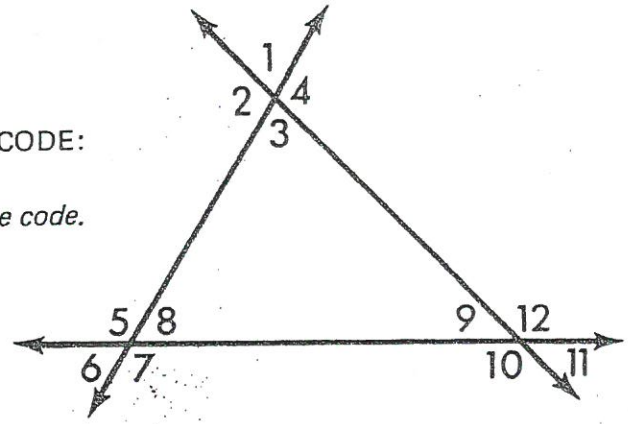


# WHO'S WHO?

THE LAST PART OF TWO SENTENCES IS WRITTEN IN CODE BELOW. TO DECODE:

*Figure out the measure of the unknown angle in any problem. Then find this measure in the code. Each time it appears in the code, write the letter of that problem above it.*

*KEEP WORKING AND YOU WILL LEARN WHO'S WHO.*




A CANNIBAL IS SOMEONE WHO _____

56° 37° 135° 64° 80° 130° 70° 80° 64° 50° 52° 64° 45° 124° 85°

A MOVIE PRODUCER IS SOMEONE WHO _____

130° 143° 124° 85° 135° 80° 143° 37° 80° 56° 128° 76° 135° 60° 80° 130° 124° 50° 80°

(R) IF m∠1 = 50°, THEN m∠3 = ( )

(T) IF m∠1 = 50°, THEN m∠2 = ( )

(M) IF m∠8 = 45°, THEN m∠6 = ( )

(K) IF m∠8 = 45°, THEN m∠7 = ( )

(U) IF m∠12 = 128°, THEN m∠10 = ( )

(V) IF m∠12 = 128°, THEN m∠9 = ( )

(I) IF m∠4 = 143°, THEN m∠3 = ( )

(H) IF m∠4 = 143°, THEN m∠2 = ( )

(Y) IF m∠3 = 50° AND m∠8 = 70°, THEN m∠9 = ( )

(O) IF m∠8 = 55° AND m∠9 = 55°, THEN m∠3 = ( )

(N) IF m∠3 = 35° AND m∠9 = 60°, THEN m∠8 = ( )

(C) IF m∠9 = 41° AND m∠8 = 63°, THEN m∠3 = ( )

(L) IF m∠8 = 80° AND m∠3 = 44°, THEN m∠9 = ( )

(A) IF m∠8 = 80° AND m∠3 = 44°, THEN m∠12 = ( )

(E) IF m∠6 = 47° AND m∠11 = 69°, THEN m∠3 = ( )

(S) IF m∠5 = 130° AND m∠12 = 130°, THEN m∠3 = ( )