Mr. Svarc's Missing $ Problem...REALLY???

Two men were selling Atlantic Salmon Flies: one man sold 3 flies per dollar and the other man sold 2 flies per dollar.

One day they were both away so they each left 30 flies with a friend. To simplify the reckoning, the friend decided to sell 5 flies for 2 dollars. They sold them all and took in 24 dollars.

When it came to dividing up the sales between the owners...a problem arose. The one who had 30 flies at 3 for a dollar wanted $10. The other who had 30 flies at 2 for a dollar wanted $15. In total this made $25.

The friend only made $24 which means that they are a dollar short.

WHAT HAPPENED TO THE MISSING DOLLAR???

Old MacDonald's Last Wishes...

Old MacDonald had 17 cows. He died. His will said...

The first daughter Malia gets 1/2 of the cows.

The second daughter Lainey gets 1/3 of the cows.

The third daughter Janna gets 1/9 of the cows.

The daughters could not figure out how to divide the cows.

Mr. Hallihan wanted to help so he loaned a cow to them.

Then the first daughter took 1/2 of 18 cows = 9 cows.

The second daughter took 1/3 of 18 or 6 cows.

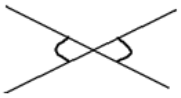
The third daughter took 1/9 of 18 or 2 cows.

That makes 9 + 6 + 2 = 17 cows. So Mr. Hallihan took his cow back home.

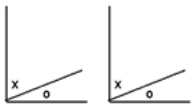
Explain???

GEOMETRY THEOREMS...

- **ANGLE THEOREMS:** Notes - Geometry Theorems.doc

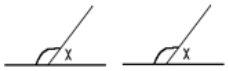


(OAT) Opposite Angle Theorem → If two lines intersect then the opposite angles are equal.



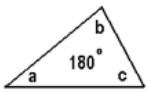
(CAT) Complementary Angle Theorem → If two angles are equal, then their complements are equal.

Note: Complementary angles sum to 90°.



(SAT) Supplementary Angle Theorem → If two angles are equal, then their supplements are equal.

Note: Supplementary angles sum to 180°.

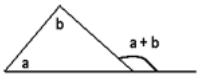


(SATT) Sum of the Angles of a Triangle Theorem → The sum of the interior angles of a triangle is 180°.

Note: When two angles of one triangle are respectively equal to two angles of another triangle, the third angles are equal.

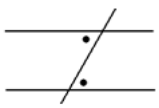
(ITT) Isosceles Triangle Theorem → The angles opposite the equal sides are equal.

Note: Isosceles triangles have 2 equal sides.



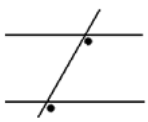
(EAT) Exterior Angle Theorem → An exterior angle of a triangle is equal to the sum of the interior and non-adjacent angles.

- **TRANSVERSAL PARALLEL THEOREMS:**



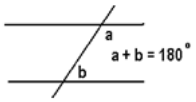
(AIA) Alternate Interior Angles → When a transversal intersects a set of parallel lines, the alternate interior angles are equal.

Note: "Z" pattern



(CA) Corresponding Angles → When a transversal intersects a set of parallel lines, the corresponding angles are equal.

Note: "F" pattern



(CIA) Co-Interior Angles → When a transversal intersects a set of parallel lines, the co-interior angles sum to 180°.

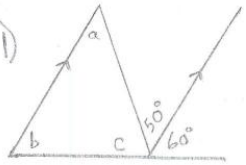
Note: "C" pattern

In class assignment

Assignment - Angle Properties Oct. 2014.pdf

Name: _____

1)

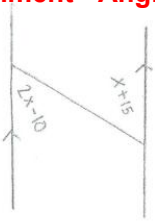


∠a = ____ ( )

∠b = ____ ( )

∠c = ____ ( )

2)

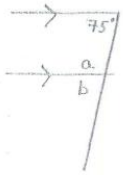


x = ____ ( )

2x - 10 = ____

x + 15 = ____

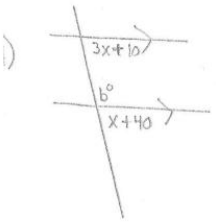
3)



∠a = ____ ( )

∠b = ____ ( )

4)



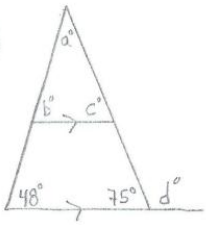
x = ____

3x + 10 = ____

x + 40 = ____

∠b = ____

5)



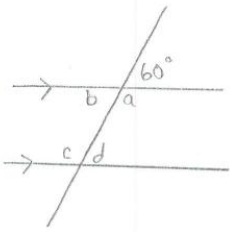
∠a = ____ ( )

∠b = ____ ( )

∠c = ____ ( )

∠d = ____ ( )

6)



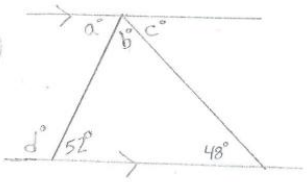
∠a = ____ ( )

∠b = ____ ( )

∠c = ____ ( )

∠d = ____ ( )

7)



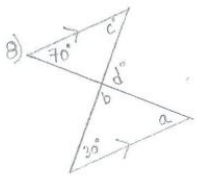
∠a = ____ ( )

∠b = ____ ( )

∠c = ____ ( )

∠d = ____ ( )

8)



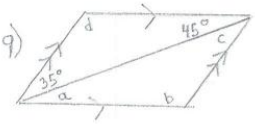
∠a = ____ ( )

∠b = ____ ( )

∠c = ____ ( )

∠d = ____ ( )

9)



∠a = ____ ( )

∠b = ____ ( )

∠c = ____ ( )

∠d = ____ ( )

Attachments

Notes - Geometry Theorems.doc

Assignment - Angle Properties Oct. 2014.pdf