

Outcome 2 - Calculating Missing Angles

Bronze examples

Examples...

Calculate the missing angles...

****90° in a right angle!****

$?^\circ + 44^\circ = 90^\circ$
 $? = 90 - 44$
 $= 46^\circ$

****180° in a straight line!****

$?^\circ + 76^\circ = 180^\circ$
 $? = 180 - 76$
 $= 104^\circ$

Silver examples

Examples...

Calculate the missing angles...

****360° in a full turn!****

$75^\circ + ? + 35^\circ + 155^\circ = 360^\circ$
 $75 + 35 + 155 = 265$
 $? = 360 - 265 = 95^\circ$

****opposite angles are equal!****

$?_1 = 30^\circ$
 $?_2 = 180 - 30 = 150^\circ$
 $?_3 = 150^\circ$

Gold example

Examples...

Calculate the missing angle...

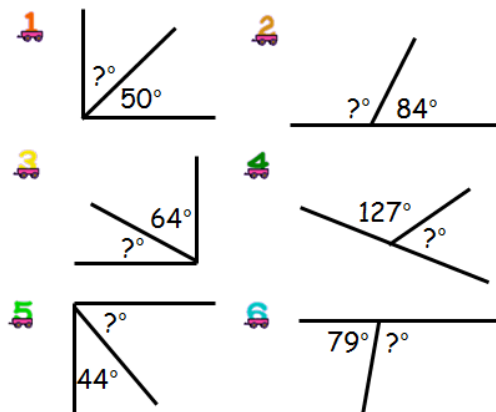
180° in a straight line!

$107^\circ + 73^\circ + ?^\circ = 180^\circ$
 $180 - 107 = 73$
 $? = 73^\circ$

****Look for 'F' or 'Z' angles!****

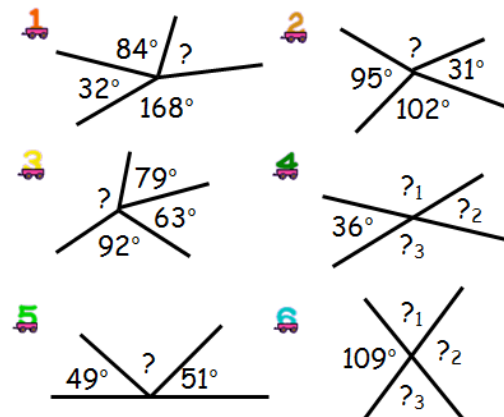
Bronze Questions

Calculate the following missing angles...



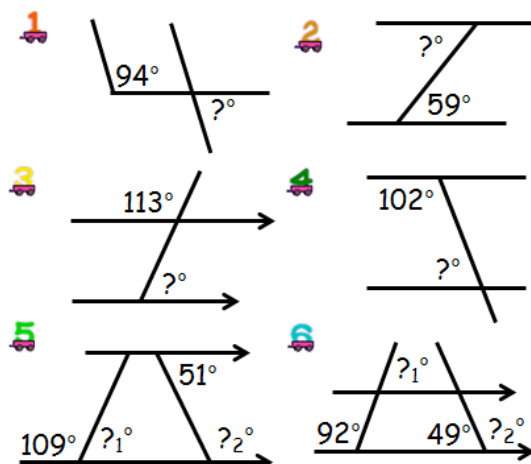
Silver Questions

Calculate the following missing angles...



Gold Questions

Calculate the following missing angles...



Bronze Answers

1. $? = 40^\circ$
2. $? = 96^\circ$
3. $? = 26^\circ$
4. $? = 53^\circ$
5. $? = 46^\circ$
6. $? = 101^\circ$

Silver Answers

1. $? = 76^\circ$
2. $? = 132^\circ$
3. $? = 126^\circ$
4. $?_1 = 144^\circ, ?_2 = 36^\circ, ?_3 = 144^\circ$
5. $? = 80^\circ$
6. $?_1 = 71^\circ, ?_2 = 109^\circ, ?_3 = 71^\circ$

Gold Answers

1. $? = 86^\circ$
2. $? = 59^\circ$
3. $? = 67^\circ$
4. $? = 78^\circ$
5. $?_1 = 71^\circ, ?_2 = 129^\circ$
6. $?_1 = 88^\circ, ?_2 = 131^\circ$