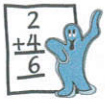
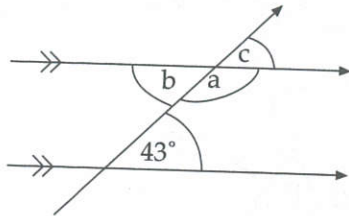


Angle Properties of Parallel Lines – Finding unknown angles on parallel lines.



Example

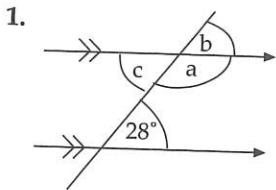
Calculate the missing angles giving appropriate reasons.



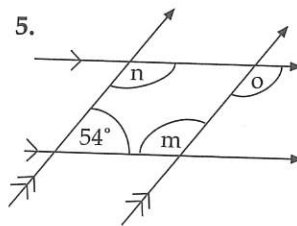
- $a = 137^\circ$ Cointerior angles sum to give 180° , parallel lines.
- $b = 43^\circ$ Alternate angles are equal, parallel lines.
- $c = 43^\circ$ Corresponding angles are equal, parallel lines.



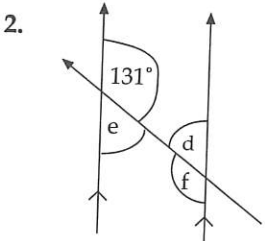
Calculate the missing angles.



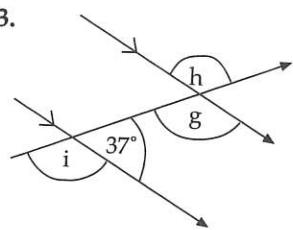
$a =$ _____
 $b =$ _____
 $c =$ _____



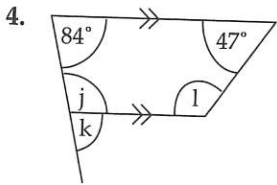
$m =$ _____
 $n =$ _____
 $o =$ _____



$d =$ _____
 $e =$ _____
 $f =$ _____

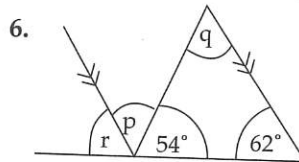


$g =$ _____
 $h =$ _____
 $i =$ _____



$j =$ _____
 $k =$ _____
 $l =$ _____

Find the missing angles giving appropriate reasons.



$p =$ _____
 $q =$ _____
 $r =$ _____

Reason for p

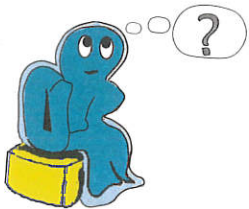
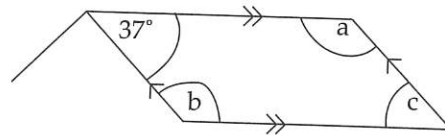
Reason for q

Reason for r



Application Problem

The roof of a building is depicted in the diagram below. Calculate the missing angles.



Problem Solving

A girl has a large number of counters. She notices that when she divides them by the number 5, 6 or 7 there is always exactly one left over. What is the minimum numbers of counters she could have?



I found this work

Proportion completed

Easy OK Difficult None Few Half Most All

Date: _____