

Work out the sizes of the unknown angles.

Give reasons for your answers.

2











Work out the unknown angles. Sort the triangles into the table. 3 5 a) c) А 19.5° 21.5° 88.4° 95° q D С 23.2° 65° 139 ° 68.4 q =s =96 .61 b) d) 0 acute angles 1 acute angle 2 acute angles 72° 42.1 ACE 101.6° 47.3° Are any of the columns empty? Why? t = 60 · 7 ° 36.3 r =The sum of the angles in a briangle is 180° so there Discuss your reasons with a partner. has to be at least 2 acute angles a) Two angles in a triangle are 42° and 57°. 4 6 What is the size of the third angle? 0 81  $p = 143^{\circ}$  because angles 37° in a triangle sum to  $180^\circ$ **b)** Two of the angles in a triangle are 12°. and 180 - 37 = 143 What is the size of the third angle? р 156 Do you agree with Ron? \_No\_\_\_\_ c) One of the angles in a triangle is 38°. Another angle is twice the Explain your answer. size of the first angle. He basist included the right angle. What is the size of the third angle? 66°



34<sup>°</sup>

F

3 acute angles

B D

