

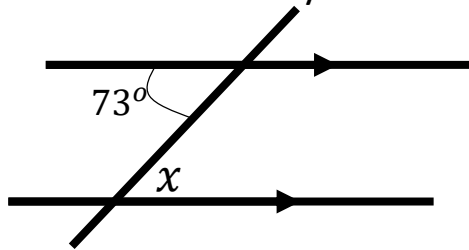


Timester Challenge

Angles on Parallel Lines

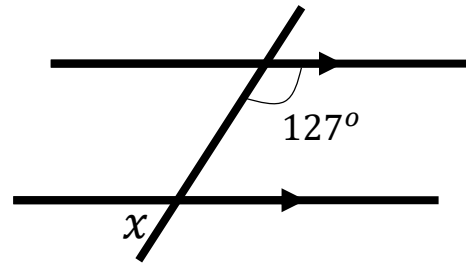


Work out the value of angle x .
Give a reason for your answer.



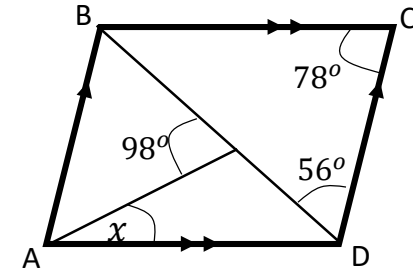
Bronze ★

Work out the value of angle x .
Give a reasons for your answer.

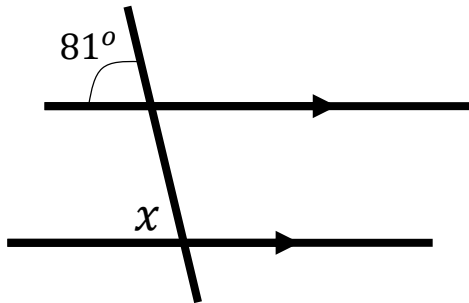


Silver ★

ABCD is a parallelogram.
Calculate the size of angle x .
You must give reasons for your answer.

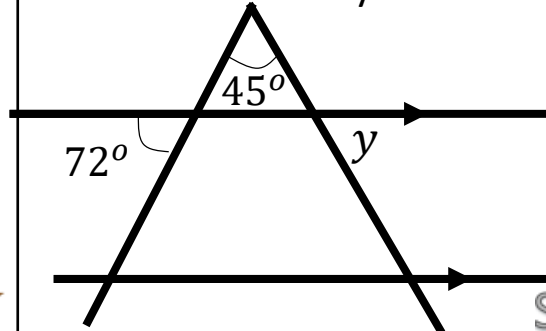


Work out the value of angle x .
Give a reason for your answer.



Bronze ★

Work out the value of angle y .
Give a reasons for your answer.



Silver ★

Gold ★



Timester Challenge

Angles on Parallel Lines

Answers



<p>Work out the value of angle x. Give a reason for your answer.</p> <p>$x = 73^\circ$ because alternate angles are the same.</p> <p>Bronze ★</p>	<p>$y = 180 - 127 = 53^\circ$ because interior angles add to make 180 degrees $x = 53^\circ$ because vertically opposite angles are the same..</p> <p>Work out the value of angle y. Give a reasons for your answer.</p> <p>Silver ★</p>	<p>ABCD is a parallelogram. Calculate the size of angle x. You must give reasons for your answer.</p> <p>Angle $y = 180 - 98 = 82^\circ$ because angles on a straight line total 180 degrees. Angle $ADC = 180 - 78 = 102^\circ$ because interior angles total 180 degrees. Angle $z = 102 - 56 = 46^\circ$ So Angles $x = 180 - (82 + 46) = 52^\circ$ because angles inside a triangle total 180 degrees.</p> <p>Gold ★</p>
<p>Work out the value of angle x. Give a reason for your answer.</p> <p>$x = 81^\circ$ because corresponding angles are the same.</p> <p>Bronze ★</p>	<p>$x = 72^\circ$ because alternate angles are the same. $z = 180 - (45 + 72) = 63^\circ$ because angles inside triangle add to make 180 degrees. $y = 63^\circ$ because alternate angles are the same.</p> <p>Work out the value of angle x. Give a reasons for your answer.</p> <p>Silver ★</p>	