| Monday 27.4.20 | Monday 27.4.20 |
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| opposite angles. <br> These lines indicate that the two angles are <br> This means that they will be the same size angle. | Here is a triangle. <br> Q1 What kind of triangle is it? How do you know? Isosceles triangle Q2 Workout the size of angle $m$. $75^{\circ}$ |
| Monday 27.4.20 <br> Q3 <br> Complete the sentence to describe the angles in this type of triangle: <br> In an isosceles triangle, the angles add up to $\mathbf{1 8 0}^{\circ}$. Two of these angles will be the same. | Monday 27.4.20 <br> Q4 <br> Your knowledge of triangles that you learnt last week should help with this question. <br> Are these statements true or false? <br> Every isosceles triangle is equilateral False Every equilateral triangle is an isosceles True A right-angled triangle can be equilateral False A right-angles triangle can be an isosceles True |
| Tuesday 28.4.20 <br> Q1 <br> Two angles in a triangle are $43^{\circ}$ and $74^{\circ}$ <br> Is the triangle isosceles? No Show your working out. The missing angle is 63。 so there is not a pair of angles. $43^{\circ}+74^{\circ}=117^{\circ} \quad 180^{\circ}-117^{\circ}=63^{\circ}$ | Tuesday 28.4.20 <br> Q2 <br> One angle in an isosceles triangle is $29^{\circ}$. What could the other angle be? Give two possible answers. $\begin{array}{ll} 29^{\circ} \text { and } 122^{\circ}=151^{\circ} & +29^{\circ}=180^{\circ} \\ 75.5^{\circ} \text { and } 75.5^{\circ}=151^{\circ} & +29^{\circ}=180^{\circ} \end{array}$ <br> Each answer has a pair of angles that are the same. |
| Tuesday 28.4.20 <br> Q3 <br> Two isosceles triangles are joined together to form a kite. Work out the size of the unknown angles. <br> (Think about opposite angles and the properties of an isosceles to help you.) $\begin{aligned} & W=38^{\circ} \\ & X=56^{\circ} \\ & Y=38^{\circ} \\ & Z=56^{\circ} \end{aligned}$ | Tuesday 28.4.20 <br> Q4 <br> Teddy is drawing a quadrilateral. <br> My quadrilateral has exactly three right-angles. <br> Is Teddy's quadrilateral possible? No <br> Explain your answer. $\mathbf{3 \times 9 0 = 2 7 0 \quad 3 6 0 - 2 7 0 = 9 0}$ If three angles were right angles, the third would also have to be a right angle. |




