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1) Two straight lines are drawn in order to make angles *a* and *b*. Tick the statements that are true. Correct any incorrect statements. b а $\bigcirc a + b = 180^{\circ}$ If angle *a* was increased by 50°, then it would equal 140°. \bigcirc If angle *a* was decreased by 75°, then it would equal 10°. \bigcirc If angle *b* was increased by 30°, then angle *a* would now equal 50°. 2) Calculate the missing angles. h 46° 75° 135° 3) What could angles a and b measure? Give two different possibilities for each angle. and explain your reasoning.





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1) Calculate the value of each angle.



Angles a + b + c = a straight line. Now you know the values of a and b, calculate the value of c.

- 2) In the question above, angle b is one of 6 equal angles formed around a point. How many other whole-number equal angles around a point can be formed?
- **3)** This pie chart shows the favourite colour of each member of a class.



 $\frac{1}{3}$ of children have red as their favourite colour. Nine times as many children prefer blue to green.

Give the number of degrees represented by each colour on the pie chart.

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