Chapter 8: Lines and angles



Revolution	Straight angle	Right angle	
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One complete turn = 360°	$\frac{1}{2}$ turn = 180°	$\frac{1}{4}$ turn = 90°	
Acute angle	Obtuse angle	Reflex angle	
Less than $\frac{1}{4}$ turn.	Between $\frac{1}{4}$ turn and $\frac{1}{2}$ turn.	Between $\frac{1}{2}$ turn and a complete turn.	
Between 0° and 90° .	Between 90° and 180°.	Between 180° and 360°.	

Angles which add to 90° are called **complementary angles**. Angles which add to 180° are called **supplementary angles**.

- 1 True or false?
 - **a** An angle measuring 42° is an acute angle.
 - **b** Half a revolution is a straight angle.
 - A straight angle is neither an obtuse angle nor a reflex angle.
- **2** Name and classify each angle:





- **3** Find the angle which is complementary to:
 - **a** 31° **b** 84°

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ANGLES

- **4** Find the angle which is supplementary to:
 - a 13°

b 113°



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ANGLE PROPERTIES

Title	Theorem	
Angles at a point	Angles at a point add to 360°.	
Angles on a straight line	straight line Angles on a line are supplementary.	
Angles in a right angle Angles in a right angle are complementary		
Vertically opposite angles Vertically opposite angles are equal in size		

1 Find the value of the unknown:





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