

Section 1: Algebra

**Question 1**  
Solve for  $x$ :  
 $2x + 5 = 15$

**Question 2**  
Simplify:  
 $3(x + 2) - 4(x - 1)$

**Question 3**  
Factorize:  
 $x^2 - 5x + 6$

**Question 4**  
Solve the system:  
 $x + y = 7$   
 $2x - y = 3$

Section 2: Geometry

**Question 5**  
Find the area of a triangle with base 10 and height 6.

**Question 6**  
A circle has a radius of 5. Find its circumference.

**Question 7**  
A rectangle has a length of 8 and a width of 3. Find its perimeter.

**Question 8**  
Two angles are supplementary. One angle is  $30^\circ$  more than the other. Find the angles.

**Question 9**  
A right-angled triangle has a hypotenuse of 10. The other two sides are in the ratio 3:4. Find the sides.