

# Perimeter and Algebra      Answers

$$1) 3a + 3a + 3a + 3a$$

$$\boxed{12a}$$

$$2) a + a + a + 2 + a + 2$$

$$\boxed{4a + 4}$$

$$3) 6v + 5 + 5s - 4v + 2s + 5$$

$$\boxed{2v + 8s + 5}$$

$$4) 4x + 4x + 3y + 3y$$

$$\boxed{8x + 6y}$$

$$5) a + b + b + c + a + c$$

$$\boxed{2a + 2b + 2c}$$

$$6) 5y - 1 + 5y - 1 + 5y - 1 + 5y - 1$$

OR

$$4(5y - 1) = \boxed{20y - 4}$$

$$7) 42x + 42x + 36x + 36x$$

$$\boxed{156x}$$

$$8) 4x + 8 + 3x + 3(x - 2)$$

$$4x + 8 + 3x + 3x - 6$$

$$\boxed{10x + 2}$$

$$9) 3x - 4 + 3x - 4 +$$

$$2x + 1 + 2x + 1$$

$$\boxed{10x - 6}$$

$$10) \frac{6x - 24}{3} = 2x - 8$$

11) Answers vary