

Algebra – Level 6 – Solving Equations with x on both sides of equation

1. Solve these equations.
Show your working.

$$8k + 1 = 17$$

$$k = \dots\dots\dots$$

1 mark

$$2m + 5 = 10$$

$$m = \dots\dots\dots$$

1 mark

$$3t + 4 = t + 13$$

$$t = \dots\dots\dots$$

2 marks

2. **Solving**

- (a) When $x = 5$, work out the values of the expressions below.

$$2x + 13 = \dots\dots\dots$$

$$5x - 5 = \dots\dots\dots$$

$$3 + 6x = \dots\dots\dots$$

2 marks

- (b) When $2y + 11 = 17$, work out the value of y
Show your working.

$$y = \dots\dots\dots$$

2 marks

- (c) Solve the equation $9y + 3 = 5y + 13$
Show your working.

$$y = \dots\dots\dots$$

2 marks