# Using Symbols and Expressions to Think Mathematically– Set 5

**A** *Can solve equity statements that contain an unknown.*

| Addition | Multiplication | Ratios |
|---|---|---|
| **n + 4 = 11**<br>n = 11 – 4<br>**n = 7** | **x + x + x + x = 8**<br>2 + 2 + 2 + 2 = 8<br>**x = 2**<br><br>**3n = 15**<br>3n = 5 + 5 + 5<br>**n = 5** | **3 : 4 = ? : 8**<br>4 x 2 = 8<br>3 x 2 = 6<br>**6 : 8** |
| **Subtraction** | **Division** | **Percentages** |
| **s – 8 = 13**<br>s = 13 + 8<br>**s = 21** | $\frac{\mathbf{x}}{\mathbf{2}} = \mathbf{10}$<br>x = 10 x 2<br>**x = 20** | **50 % of ☐ = 8**<br>50 % x j = 8<br>$\frac{50}{100}$ x j = 8<br>$\frac{1}{2}$ x j = 8<br>j = 8 x 2<br>**j = 16** |

**B** *Can write an equity statement from a simple word problem.*

Liam bought a packet of bread rolls, 7 got eaten, there are 8 left, how many bread rolls did Liam buy.

? bread rolls – 7 bread rolls = 8 bread rolls

b – 7 = 8

b = 7 + 8

**b = 8**

Ella made muffins, she made 2 chocolate for every 1 banana muffin. She made 18 chocolate muffins, how many banana muffins did she make?

(2 chocolate: 1 banana) = (18 chocolate : ? banana)

**2 : 1 = 18 : ?**

2 x 9 = 18

1 x 9 = 9

**18 : 9**

= (18 chocolate : 9 banana)