

**Objective:** Solve addition and subtraction two step problems in contexts deciding which operations and methods to use and why

## Year 4 Task:

Ally has 56 books in her bookcase. They are either adventure stories or books about dogs. She has 14 more adventure story books than books about dogs. How many of each type of book does she have?

### Worked example

#### Method 1

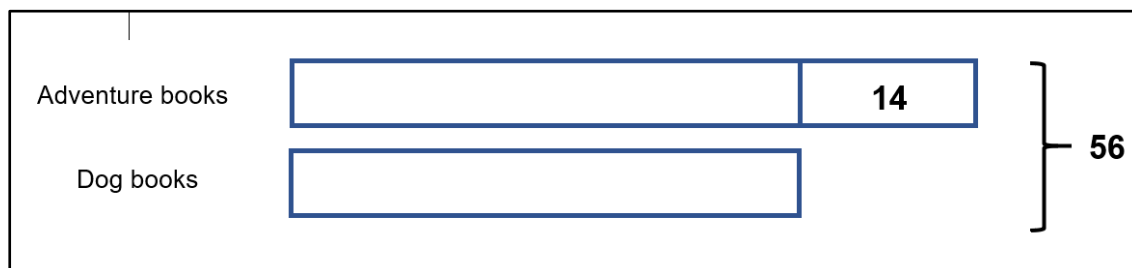
Adventure books + Dog books = 56 books altogether

	Adventure	Dog	Total	
Guess	15	29	44	too low
Guess	17	31	48	too low
Guess	20	34	54	too low
Guess	21	35	56	correct

#### Method 2

Use a bar model to represent the problem

There are 14 more adventure books compared to dog books



Subtract 14 from 56.

$$56 - 14 = 42$$

Divide 42 between the two types of books

$$42 \div 2 = 21$$

So 21 dog books and 21 + 14 adventure books

**Answer: 21 dog books and 35 adventure books**

## Variation

John and Sally are playing a game. They have scored 757 points altogether. Sally has scored 37 more points than John.

How many points has John scored?

Method 1:

Method 2:

Answer: John has scored 360 points, (Sally has scored 397 points;  $397+360=757$ )