

Name : \_\_\_\_\_

## Arithmetic Sequence - Unknowns

Sheet 2

- 1) An arithmetic sequence is formed by  $\frac{96}{z} - 1, \frac{110}{z} - 1, \frac{124}{z} - 1, \frac{138}{z} - 1, \frac{152}{z} - 1, \dots$   
Find  $z$ , if the 16<sup>th</sup> term is 152.
- \_\_\_\_\_

- 2) If  $-7b - 1, -5b - 1, \dots$  is an arithmetic progression and the 45<sup>th</sup> term is \_\_\_\_\_

- 3) If the twenty-third term of an arithmetic progression is  $r - 26, \dots$  is  $-143$  and the 35<sup>th</sup> term is  $r - 12, r - 19, \dots$

- 4) If  $q, 2q + 3, 3q + 6, \dots$  is an arithmetic sequence and the 8<sup>th</sup> term is 61, find  $q$ .

**PREVIEW**

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

- 5) An arithmetic progression is formed by  $\frac{22}{w}, \frac{34}{w}, \frac{46}{w}, \frac{58}{w}, \frac{70}{w}, \dots$  If the 34<sup>th</sup> term is  $\frac{418}{15}$ , find  $w$ .
- \_\_\_\_\_