Name : _____

Arithmetic Sequence - Unknowns

1) If the twenty-second term in the arithmetic sequence k + 1, k – 7, k – 15, k – 23, k – 31, ... is –165, find the value of k.

_____

2) An arithmetic progression is formed by s, 2s + 1, 3s + 2, 4s + 3, 5s + 4, ... If the 36^{th} term is 71, find s.

_____

3) If $\frac{8}{x}, \frac{51}{2x}, \frac{43}{x}, -$ l the 12^{th} term is $\frac{401}{14}$, determine the v

_____

4) An arithmetic s –2f – 15, –2f – 21, ... Find f, if the 19t

_____

5) If m, m + 4, m + 8, m + 12, m + 16, ... forms an arithmetic progression and the 18^{th} term is 80, determine the value of m.

_____

Name : _____

Answer key

Sheet 1

Arithmetic Sequence - Unknowns

1) If the twenty-second term in the arithmetic sequence k + 1, k – 7, k – 15, k – 23, k – 31, ... is –165, find the value of k.

k = 2

2) An arithmetic progression is formed by s, 2s + 1, 3s + 2, 4s + 3, 5s + 4, ... If the 36^{th} term is 71, find s.

3) If $\frac{8}{x}, \frac{51}{2x}, \frac{43}{x}, -$ the 12^{th} term is $\frac{401}{14}$, determine the

4) An arithmetic s $-2f - 15, -2f - 21, \ldots$ Find f, if the 19^{t}

f = 5

5) If m, m + 4, m + 8, m + 12, m + 16, ... forms an arithmetic progression and the 18^{th} term is 80, determine the value of m.

m = 12