

a Find the next term of 3, 4, 7, 11, 18, ... <u>29</u> a Fibonacci type sequence	b This is a Fibonacci type sequence. Fill in the gaps: 4, ____, ____, 18 <u>7, 11</u> Fibonacci type: filling the gaps	c Find the next term of 2, 6, 18, 54, ... <u>162</u> a geometric sequence	d Find the next term of 81, 54, 36, 24, ... <u>16</u> a fraction ratio
e Find the next term of 3, 6, 11, 18, ... <u>27</u> a quadratic sequence	f Find the next term of 20, 17, 12, 5, ... <u>-4</u> a decreasing quadratic sequence	g Find the next term of $\sqrt{2}$, 2, $2\sqrt{2}$, 4, ... <u>$4\sqrt{2}$</u> a surd ratio	h Find the common ratio of 2, $2\sqrt{5}$, 10, ... <u>$\sqrt{5}$</u> finding a surd ratio
i 2, 6, 12, 20, ... Is it arithmetic, geometric, quadratic or Fibonacci type? <u>quadratic</u> naming the type of sequence	j Find the next term of $1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \dots$ <u>$\frac{1}{5}$</u> another sequence: reciprocals	k Find the next term of 1, -2, 4, -8, ... <u>16</u> a negative ratio	l Find the next term of 2, 3, 5, 9, 17, ... <u>33</u> another sequence: a two step rule

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