CARD A

$2n^2$

★★★★☆   **CARD A**

Find the nth-term formula for the sequence:

$$3, 3, 5, 9, 15$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD B

n^2

★★★★☆   **CARD B**

Find the nth-term formula for the sequence:

$$3, 8, 15, 24, 35$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD C

$n^2 - 3n + 5$

★★★★☆   **CARD C**

Find the nth-term formula for the sequence:

$$-2, 3, 10, 19, 30$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD D

$n^2 + n + 5$

★★★★★   **CARD D**

Find the nth-term formula for the sequence:

$$7, 4, -1, -8, -17$$

SET 1   **?** Find Answer

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CARD E

$n^2 + 2n$

★★★★★   **CARD E**

Find the nth-term formula for the sequence:

$$2, -1, -6, -13, -22$$

SET 1   **?** Find Answer

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CARD F

$n^2 + 6$

★★★★★   **CARD F**

Find the nth-term formula for the sequence:

$$1, 8, 21, 40, 65$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD G

$8 - n^2$

★★★★★   **CARD G**

Find the nth-term formula for the sequence:

$$0, 6, 16, 30, 48$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD H

$2n^2 + 5$

★★★★☆   **CARD H**

Find the nth-term formula for the sequence:

$$7, 10, 15, 22, 31$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD I

$2n^2 - n$

★★★★☆   **CARD I**

Find the nth-term formula for the sequence:

$$7, 13, 23, 37, 55$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD J

☆☆☆☆☆   **CARD J**

Find the *n*th-term formula for the sequence:

$$7, 11, 17, 25, 35$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD K

☆☆☆☆☆   **CARD K**

Find the *n*th-term formula for the sequence:

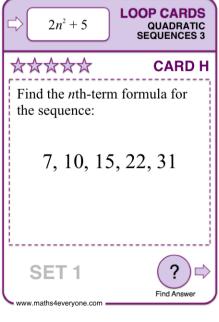$$2, 8, 18, 32, 50$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD L

☆☆☆☆☆   **CARD L**

Find the *n*th-term formula for the sequence:

$$-2, 1, 6, 13, 22$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD M

☆☆☆☆☆   **CARD M**

Find the *n*th-term formula for the sequence:

$$3, 12, 27, 48, 75$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD N

☆☆☆☆☆   **CARD N**

Find the *n*th-term formula for the sequence:

$$0, 2, 6, 12, 20$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD O

☆☆☆☆☆   **CARD O**

Find the *n*th-term formula for the sequence:

$$1, 6, 15, 28, 45$$

SET 1   **?** Find Answer

www.maths4everyone.com

CARD P

☆☆☆☆☆   **CARD P**

Find the *n*th-term formula for the sequence:

$$1, 4, 9, 16, 25$$

SET 1   **?** Find Answer

www.maths4everyone.com

LOOP CARD SOLUTION

E ⇨ O ⇨ I ⇨ H

B ⬆   F ⬇

P ⬆   J ⬇

M ⬆   D ⬇

L ⬆   G ⬇

N ⇦ C ⇦ A ⇦ K

LOOP CARD SOLUTION

QUADRATIC SEQUENCES 3

SET 1

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INSTRUCTIONS

SINGLE PLAYER

- Shuffle the cards.
- Choose any card and work out the answer to its question.
- Put this card face down on the table.
- Look through the rest of the pack, find the card that has the answer from the first card and answer its question, putting this second card, face down, on top of the first card.
- Now find the card that has this answer on it and repeat the process of finding the answer to one card at the top of another card, answering the question etc., until you have answered all the questions on all of the cards.
- Use the Solution Card to check that you have put the cards in the correct order.
- Shuffle the cards and repeat the game, but try timing yourself!

MULTIPLE PLAYERS

- Each player has their own pack of shuffled cards.
- They start at the same time and sees who finished quickest.
- A 20 second time penalty is given for each card that does not correctly follow on from the previous one.

  UNDERLINE VARIATION

  - Each player has a different pack of cards and race each other (the finish time for the players is recorded).
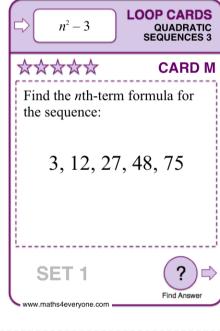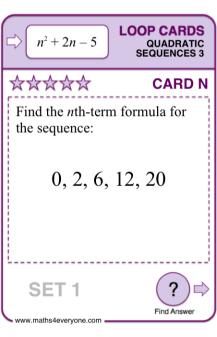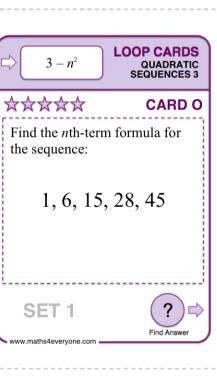 - Answers are checked and a 20 second time penalty is given for each card that does not correctly follow on from the previous one.
  - Players then swap packs and race again.
  - The player with the least total time wins.

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