

Sociedad Madrileña de Profesores de

Matemáticas

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**II OLIMPIADA MATEMÁTICA ALEVÍN**

PARA 6ºEP DE LA COMUNIDAD DE MADRID

FASE REGIONAL

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*Resolución en grupo*

Tened en cuenta que, al resolver un problema, el proceso que hayáis seguido para llegar al resultado es tan importante como él mismo. Por ello os pedimos que al final nos deis la solución que hayáis encontrado y también que expliquéis cuáles fueron las ideas más importantes que os llevaron a ella.

Nombre: …………………………………………………….............…………………… Nº:.................

Nombre: ……………………………………………………………………...…………… Nº:.................

**Mensaje cifrado**

Los “primos” se han enviado un mensaje secreto. Lo han codificado para que nadie pueda leerlo si lo intercepta. ¿Sois capaces de descifrarlo? ¿Qué dice el mensaje? ¿Cuál es el código utilizado?

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | L | A | E | S | B | M | C | K | O |
| A | H | T | M | U | A | E | K | M | Ñ |
| D | F | A | B | Q | I | S | W | T | F |
| I | C | N | B | V | A | C | D | G | A |
| A | G | S | I | H | B | S | K | P | M |
| U | H | O | T | F | C | A | E | N | T |
| M | M | J | P | M | A | U | L | Y | G |
| Y | S | G | J | M | B | V | K | U | O |
| S | E | A | R | O | N | O | R | Y | A |
| A | F | P | K | J | I | S | E | S | R |

**Solución**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | L | A | 4 | S | 6 | M | 8 | 9 | 10 |
| A | 12 | T | 14 | 15 | 16 | E | 18 | M | 20 |
| 21 | 22 | A | 24 | 25 | 26 | 27 | 28 | T | 30 |
| I | 32 | 33 | 34 | 35 | 36 | C | 38 | 39 | 40 |
| A | 42 | S | 44 | 45 | 46 | S | 48 | 49 | 50 |
| 51 | 52 | O | 54 | 55 | 56 | 57 | 58 | N | 60 |
| M | 62 | 63 | 64 | 65 | 66 | U | 68 | 69 | 70 |
| Y | 72 | G | 74 | 75 | 76 | 77 | 78 | U | 80 |
| 81 | 82 | A | 84 | 85 | 86 | 87 | 88 | Y | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | S | 98 | 99 | 100 |

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| A | L | A | E | S | B | M | C | K | O |
| A | H | T | M | U | A | E | K | M | Ñ |
| D | F | A | B | Q | I | S | W | T | F |
| I | C | N | B | V | A | C | D | G | A |
| A | G | S | I | H | B | S | K | P | M |
| U | H | O | T | F | C | A | E | N | T |
| M | M | J | P | M | A | U | L | Y | G |
| Y | S | G | J | M | B | V | K | U | O |
| S | E | A | R | O | N | O | R | Y | A |
| A | F | P | K | J | I | S | E | S | R |