



1 Solution Letters

1.1 Inclusion

Question	A-1	A-2
Solution	A	C
Question	B-1	B-2
Solution	B	A
Question	C-1	C-2
Solution	C	B

1.2 1st Grade

Question	A-1	A-2	A-3	A-4
Solution	A	B	D	B
Question	B-1	B-2	B-3	B-4
Solution	B	E	A	C
Question	C-1	C-2	C-3	C-4
Solution	D	D	E	A

1.3 2nd Grade

Question	A-1	A-2	A-3	A-4	A-5
Solution	B	D	E	B	A
Question	B-1	B-2	B-3	B-4	B-5
Solution	D	C	A	D	E
Question	C-1	C-2	C-3	C-4	C-5
Solution	C	A	B	E	E

2 Authors

All questions not listed separately: Heike Winkelvoß. They are available under the CC-BY-SA licence.

2.1 1st Grade

[Question A-2] Heike Winkelvoß (based on an idea from Johannes Lehmann und andere: ABC-Mathematikolympiade, S.35)

2.2 2nd Grade

[Question B-2] Johannes Lehmann und andere: ABC-Mathematikolympiade, S.61

[Question B-3] Heike Winkelvoß (based on an idea from Olympiaden Matsnanje (2023), Kl. 1-2)

[Question C-2] Heike Winkelvoß (based on an idea from Olympiaden Matsnanje (2023), Kl. 1-2)

3 Font BY WOK

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4 Image sources

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All images not mentioned were drawn with TikZ <https://tikz.dev/> oder Kolour Paint <https://apps.kde.org/kolourpaint/>.

4.1 Inclusion

A-1: 123RF

B-1: 123RF

B-2: 123RF

C-1: 123RF

4.2 1st Grade

C-1: 123RF

4.3 2nd Grade

B-1: 123RF