

Answer keys: MK 2022, Level 6 (Grades 11-12)

1. E [[video](#)] Martin's smartphone displays the diagram ...
2. B [[video](#)] How many positive three-digit numbers ...
3. B [[video](#)] Bella is older than Charly ...
4. E [[video](#)] Which one of the following ...
5. A [[video](#)] $\sqrt[5]{8}$ pencils are distributed evenly ...
6. D [[video](#)] The product of the digits ...
7. D [[video](#)] Four circles with radius 1 ...
8. B [[video](#)] All integers from 2 to ...
9. A [[video](#)] How many real solutions does ...
10. E [[video](#)] The points A, B, C ...
11. D [[video](#)] Four straight lines that intersect ...
12. E [[video](#)] a , b and c are ...
13. D [[video](#)] We check the water meter ...
14. D [[video](#)] The square pictured, is split ...
15. E [[video](#)] What is the largest common ...
16. B [[video](#)] The diagram shows a map ...
17. E [[video](#)] In a tournament with 8 ...
18. C [[video](#)] A cuboid with surface area ...
19. B [[video](#)] The arithmetic mean of five ...
20. C [[video](#)] A circle with midpoint (0|0) ...
21. B [[video](#)] The vertices of a 20-gon ...
22. A [[video](#)] Which two building blocks can ...
23. D [[video](#)] A rectangle is split into ...
24. B [[video](#)] Two rectangles are inscribed into ...
25. A [[video](#)] How many three-digit numbers are ...
26. E [[video](#)] The numbers 1 to 10 ...
27. C [[video](#)] A square is placed in ...
28. C [[video](#)] Let N be a positive ...
29. D [[video](#)] A sequence $\langle a_n \rangle$...
30. C [[video](#)] Two circles intersect a rectangle ...

Useful links

- Math Kangaroo resources: <https://boo9.com/resources/math-kangaroo>
- Practice online (automated grading) @ <https://boo9.com/practice>
- View these questions online @ [click here](#)
- Video solution (all problems this set): [click here](#)
- Playlist (all videos this level): [click here](#)

