

Answer keys: MK 2019, Level 6 (Grades 11-12)

1. **A** The flag of Kangoraland is ...
2. **E** The numbers 1, 2, 3 ...
3. **E** A rectangle is coloured in ...
4. **D** Three triangles are connected to ...
5. **C** A pyramid has 23 triangular ...
6. **B** Three four-digit numbers are written ...
7. **B** Reading from the left, what ...
8. **D** How many of the numbers ...
9. **C** Each side of a die ...
10. **E** Every day the three kangaroos ...
11. **D** Which is the highest power ...
12. **B** In this school year the ...
13. **E** A cuboid-shaped container that is ...
14. **D** Michael invents a new operation ...
15. **D** The system shown consists of ...
16. **C** A positive integer $\sqrt[n]{n}$ is ...
17. **A** There are five balls in ...
18. **B** The diagram shows two adjoining ...
19. **A** What is the biggest integer ...
20. **C** The points of intersection of ...
21. **B** Let a be the sum ...
22. **B** Which is the set of ...
23. **E** In order to determine the ...
24. **E** Consider a cube. How many ...
25. **A** Four different straight lines go ...
26. **D** For how many integers $\sqrt[n]{n}$...
27. **E** A path $\sqrt[DEFB]{}$ with $\sqrt[DE]{}$...
28. **C** The sequence $\sqrt[a_1]{a_2}, \sqrt[a_2]{a_3}, \dots$
29. **D** Three circles with radius 2 ...
30. **C** numbers are to be placed ...

Useful links

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



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