

Answer keys: MK 2012, Level 6 (Grades 11-12)

1. A A clock has three hands ...
2. E The water level in a ...
3. B How many different rectangles with ...
4. C The positive whole numbers are ...
5. B The number $\sqrt[3]{2\sqrt{2}}$ is ...
6. C In a list of five ...
7. C A rectangular piece of paper ...
8. A The sum of the digits ...
9. D The biggest possible natural number ...
10. A The age of Quintus is ...
11. C How big is the angle ...
12. E A real number x fulfills ...
13. D A travel agency organises four ...
14. D For a ski race consecutive ...
15. C In one class a test ...
16. C In the diagram we see ...
17. D A right-angled triangle with side ...
18. B square ABCD has side-length 2. ...
19. C The clock shown has a ...
20. E Renate wants to glue together ...
21. E Which of the following functions ...
22. A The solution set of the ...
23. C Let $a > b$. If ...
24. D In a game with fractions ...
25. B An equilateral triangle is being ...
26. D How many permutations $\{(x_1, x_2, \dots)$...
27. D After an especially intense lesson ...
28. A Three corners of a die ...
29. B In the sequence 1, 1, ...
30. E Gerhard chooses two numbers a ...

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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