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 $(x_1, x_2, ...$
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