

## Answer keys: MK 2016, Level 6 (Grades 11-12)

1. D The sum of the ages ...
2. C The sum  $\frac{1}{10} + \frac{1}{100}$  ...
3. B Maria wants to build a ...
4. A How many whole numbers are ...
5. A A scatter diagram on the ...
6. B What is the minimum number ...
7. C Diana wants to write whole ...
8. E The rectangles  $S_1$  and  $S_2$  ...
9. E If  $(x^2) - 4x + \dots$
10. E The diagram shows a circle ...
11. D a, b, c, d are ...
12. D In this number pyramid each ...
13. C Which value does  $\sqrt{x-4}$  take ...
14. E In rectangle ABCD the side ...
15. B Diana cuts a rectangle of ...
16. B The square shown in the ...
17. B On the island of knights ...
18. A Three three-digit numbers are built ...
19. A Each of the ten points ...
20. C Bettina chooses five points A, ...
21. C How many different real solutions ...
22. E A quadrilateral has an inner ...
23. D How many quadratic functions  $y$  ...
24. E In the right-angled triangle ABC ...
25. B The equations  $(x^2) + ax$  ...
26. C In a solid cube P ...
27. B A rectangular piece of paper ...
28. A Anna chooses a positive whole ...
29. A We consider a  $5 \times$  ...
30. C The positive whole number N ...

### 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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