

## Answer keys: MK 2014, Level 6 (Grades 11-12)

1. C If one removes some 1 ...
2. C Today is Carmen, Gerda and ...
3. B How big is the value ...
4. C In three differently sized baskets ...
5. E  $\frac{2^4(2014) - 2^4(2013)}{2^4(2013) - 2^4(2012)}$  ...
6. E For which of the following ...
7. E How many digits has the ...
8. D Handsome Fritz has a secret ...
9. D The curved surfaces of two ...
10. C In the year 2014 all ...
11. A A cuboid-shaped box has the ...
12. B The winning team of a ...
13. B The ratio of the radii ...
14. C How many whole number triples ...
15. D Six weeks are  $n!$  (= ...)
16. A The vertices of a die ...
17. B On the packaging of a ...
18. C The function  $f(x) = ax$  ...
19. E Amongst 10 different positive whole ...
20. D PQRS is a rectangle. T ...
21. D Let a, b, c be ...
22. A The straight line g runs ...
23. E There are 9 kangaroos that ...
24. A In the diagram on the ...
25. D Thomas wants to write down ...
26. A Two regular polygons with side ...
27. C The chain of equations  $\vee k$  ...
28. B In the diagram a closed ...
29. D The mapping  $\vee f : Z$  ...
30. D In the forests of 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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