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** $\dfrac{2^{2014} - 2^{2013}}{2^{2013} - 2^{2012}}$ ...
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 k ...
28. **B** In the diagram a closed ...
29. **D** The mapping $f : Z$ ...
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