

## Answer keys: MK 2017, Level 6 (Grades 11-12)

1. **B** On the number wall shown ...
2. **A** Many model railways use the ...
3. **C** In the diagram we see ...
4. **A** Two positive numbers  $a$  and ...
5. **C** Four of the following five ...
6. **B** The diagram shows a circle ...
7. **A**  $A \ 4 \times 1 \ x \dots$
8. **C** Which quadrant contains no points ...
9. **B** In each of the five ...
10. **B** The graph of which of ...
11. **A** Three circles with centres  $A_1 \dots$
12. **B** The positive number  $p$  is ...
13. **E** Two cylinders  $A$  and  $B \dots$
14. **D** Each face of the polyhedron ...
15. **B** The four faces of a ...
16. **D** The polynomial  $\sqrt{5x^3 + ax^2} \dots$
17. **E** Julia has 2017 round discs ...
18. **C** Two consecutive positive whole numbers ...
19. **D** In a convex quadrilateral  $ABCD \dots$
20. **D** Lilli tries to be a ...
21. **C** How many positive whole numbers ...
22. **E** The diagram shows a regular ...
23. **E** We look at the sequence ...
24. **D** We look at a regular ...
25. **E** The sum of the three ...
26. **D** Anna has five boxes, as ...
27. **D** Nine whole numbers were written ...
28. **A** How big is  $\sqrt{x + \dots}$
29. **E** How many different three-digit numbers ...
30. **A** 2017 people live on an ...

### 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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