Al-Khwarizmi’s geometric algebra

ANSWER KEY

12 exercises | A4 | 2 / 2

Use after completing the practice page. Values are generated by the page's shared engine.

Equivalent exact representations are valid where the prompt allows them. Non-integer results are rounded to two decimals.

1 **Answer: 3**

Missing corner area: 25; Completed square area: 64; Completed square side: 8; Positive length x: 3

2 **Answer: 6**

Missing corner area: 25; Completed square area: 121; Completed square side: 11; Positive length x: 6

3 **Answer: 3**

Missing corner area: 25; Completed square area: 64; Completed square side: 8; Positive length x: 3

4 **Answer: 8**

Missing corner area: 25; Completed square area: 169; Completed square side: 13; Positive length x: 8

5 **Answer: 5**

Missing corner area: 25; Completed square area: 100; Completed square side: 10; Positive length x: 5

6 **Answer: 2**

Missing corner area: 25; Completed square area: 49; Completed square side: 7; Positive length x: 2

7 **Answer: 7**

Missing corner area: 25; Completed square area: 144; Completed square side: 12; Positive length x: 7

8 **Answer: 4**

Missing corner area: 25; Completed square area: 81; Completed square side: 9; Positive length x: 4

9 **Answer: 9**

Missing corner area: 64; Completed square area: 289; Completed square side: 17; Positive length x: 9

10 **Answer: 6**

Missing corner area: 64; Completed square area: 196; Completed square side: 14; Positive length x: 6

11 **Answer: 3**

Missing corner area: 64; Completed square area: 121; Completed square side: 11; Positive length x: 3

12 **Answer: 8**

Missing corner area: 64; Completed square area: 256; Completed square side: 16; Positive length x: 8

Practise interactively and explore the method:

https://goofergames.com/math/world/al-khwarizmi

Free for educational use: teachers may print and share the worksheets with their students.