#### Study Island

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Simplify Square Roots

**1.** Simplify.

![https://media.studyisland.com/cgi-bin/mimetex.cgi?\sqrt%7b128%7d](data:None;base64...)

|  |  |
| --- | --- |
| Bubble | **A.** https://media.studyisland.com/cgi-bin/mimetex.cgi?32\sqrt%7b2%7d |

|  |  |
| --- | --- |
| Bubble | **B.** https://media.studyisland.com/cgi-bin/mimetex.cgi?8\sqrt%7b2%7d |

|  |  |
| --- | --- |
| Bubble | **C.** https://media.studyisland.com/cgi-bin/mimetex.cgi?64\sqrt%7b2%7d |

|  |  |
| --- | --- |
| Bubble | **D.** https://media.studyisland.com/cgi-bin/mimetex.cgi?4\sqrt%7b2%7d |

**2.** Simplify.

![https://media.studyisland.com/cgi-bin/mimetex.cgi?\sqrt%7b45%7d](data:None;base64...)

|  |  |
| --- | --- |
| Bubble | **A.** https://media.studyisland.com/cgi-bin/mimetex.cgi?3\sqrt%7b5%7d |

|  |  |
| --- | --- |
| Bubble | **B.** https://media.studyisland.com/cgi-bin/mimetex.cgi?9\sqrt%7b5%7d |

|  |  |
| --- | --- |
| Bubble | **C.** https://media.studyisland.com/cgi-bin/mimetex.cgi?5\sqrt%7b3%7d |

|  |  |
| --- | --- |
| Bubble | **D.** https://media.studyisland.com/cgi-bin/mimetex.cgi?15\sqrt%7b3%7d |

**3.** Simplify.

![https://media.studyisland.com/cgi-bin/mimetex.cgi?\sqrt%7b486%7d](data:None;base64...)

|  |  |
| --- | --- |
| Bubble | **A.** https://media.studyisland.com/cgi-bin/mimetex.cgi?81\sqrt%7b6%7d |

|  |  |
| --- | --- |
| Bubble | **B.** https://media.studyisland.com/cgi-bin/mimetex.cgi?324 |

|  |  |
| --- | --- |
| Bubble | **C.** https://media.studyisland.com/cgi-bin/mimetex.cgi?18 |

|  |  |
| --- | --- |
| Bubble | **D.** https://media.studyisland.com/cgi-bin/mimetex.cgi?9\sqrt%7b6%7d |

**4.**

![https://media.studyisland.com/cgi-bin/mimetex.cgi?5\sqrt%7b71x%7d](data:None;base64...)

Which value of *x* makes the expression above equivalent to ![https://media.studyisland.com/cgi-bin/mimetex.cgi?50\sqrt%7b71%7d](data:None;base64...)?

|  |  |
| --- | --- |
| Bubble | **A.** 100 |

|  |  |
| --- | --- |
| Bubble | **B.** 10 |

|  |  |
| --- | --- |
| Bubble | **C.** 2,500 |

|  |  |
| --- | --- |
| Bubble | **D.** 500 |

**5.**

![https://media.studyisland.com/cgi-bin/mimetex.cgi?7\sqrt%7b3x%7d](data:None;base64...)

Which value of *x* makes the expression above equivalent to ![https://media.studyisland.com/cgi-bin/mimetex.cgi?21\sqrt%7b3%7d](data:None;base64...)?

|  |  |
| --- | --- |
| Bubble | **A.** 63 |

|  |  |
| --- | --- |
| Bubble | **B.** 441 |

|  |  |
| --- | --- |
| Bubble | **C.** 3 |

|  |  |
| --- | --- |
| Bubble | **D.** 9 |