



Logarithms - Convert Logarithm to Exponent - From Decimal

1 Convert the given logarithm to the equivalent in exponent form

$$\log_5 77 = 2.7$$

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|---|----------------|---|----------------|
| A | $2.7^5 = 77$ | B | $77^5 = 2.7$ |
| C | $5^{2.7} = 77$ | D | $77^{2.7} = 5$ |

2 Convert the given logarithm to the equivalent in exponent form

$$\log_9 3,394 = 3.7$$

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|---|-------------------|---|-------------------|
| A | $3.7^9 = 3,394$ | B | $3,394^9 = 3.7$ |
| C | $3,394^{3.7} = 9$ | D | $9^{3.7} = 3,394$ |

3 Convert the given logarithm to the equivalent in exponent form

$$\log_7 1,339 = 3.7$$

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|---|-------------------|---|-------------------|
| A | $1,339^{3.7} = 7$ | B | $7^{3.7} = 1,339$ |
| C | $3.7^{1,339} = 7$ | D | $1,339^7 = 3.7$ |

4 Convert the given logarithm to the equivalent in exponent form

$$\log_9 585 = 2.9$$

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|---|-----------------|---|-----------------|
| A | $585^9 = 2.9$ | B | $2.9^9 = 585$ |
| C | $585^{2.9} = 9$ | D | $2.9^{585} = 9$ |
| E | $9^{2.9} = 585$ | | |

5 Convert the given logarithm to the equivalent in exponent form

$$\log_5 2,265 = 4.8$$

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|---|-------------------|---|-------------------|
| A | $2,265^5 = 4.8$ | B | $4.8^5 = 2,265$ |
| C | $5^{4.8} = 2,265$ | D | $4.8^{2,265} = 5$ |

6 Convert the given logarithm to the equivalent in exponent form

$$\log_7 343 = 3$$

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|---|-------------|---|---------------|
| A | $7^3 = 343$ | B | $343^3 = 7$ |
| C | $343^7 = 3$ | D | $3^{343} = 7$ |
| E | $3^7 = 343$ | | |

7 Convert the given logarithm to the equivalent in exponent form

$$\log_6 529 = 3.5$$

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|---|-----------------|---|---------------|
| A | $529^{3.5} = 6$ | B | $529^6 = 3.5$ |
| C | $6^{3.5} = 529$ | D | $3.5^6 = 529$ |

8 Convert the given logarithm to the equivalent in exponent form

$$\log_8 147 = 2.4$$

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|---|-----------------|---|-----------------|
| A | $2.4^8 = 147$ | B | $2.4^{147} = 8$ |
| C | $8^{2.4} = 147$ | D | $147^8 = 2.4$ |