Name

Logarithms - Convert Exponent to Logarithm - From Decimal

1 Convert the given exponent to the equivalent in logarithm form

$$9^{3.8} = 4,228$$

A	$\log_9 4,228 = 3.8$	B	$\log_{3.8} 9 = 4,228$
C	$\log_{4,228} 9 = 3.8$	D	$\log_{3.8} 4,228 = 9$

2 Convert the given exponent to the equivalent in logarithm form

$$2^{3.1} = 9$$

A	$\log_9 3.1 = 2$	B	$\log_2 9 = 3.1$
C	$\log_{3.1} 2 = 9$	D	$\log_{3.1} 9 = 2$

3 Convert the given exponent to the equivalent in logarithm form

$$7^{3.1} = 417$$

A	$\log_{3.1} 7 = 417$	B	$\log_7 417 = 3.1$
C	$\log_{417} 7 = 3.1$	D	$\log_{417} 3.1 = 7$

4 Convert the given exponent to the equivalent in logarithm form

$$9^{2.3} = 157$$

A	$\log_{2.3} 9 = 157$	B	$\log_{2.3} 157 = 9$
C	$\log_{157} 9 = 2.3$	D	$\log_9 157 = 2.3$

5 Convert the given exponent to the equivalent in logarithm form

$$6^{2.8} = 151$$

A	$\log_{2.8} 6 = 151$	B	$\log_{151} 6 = 2.8$
C	$\log_{2.8} 151 = 6$	D	$\log_6 151 = 2.8$

6 Convert the given exponent to the equivalent in logarithm form

$$6^{3.5} = 529$$

A	$\log_{3.5} 529 = 6$	B	$\log_{3.5} 6 = 529$
C	$\log_{529} 3.5 = 6$	D	$\log_6 529 = 3.5$

7 Convert the given exponent to the equivalent in logarithm form

$$3^{4.1} = 90$$

A	$\log_{4.1} 3 = 90$	B	$\log_{90} 4.1 = 3$
C	$\log_{90} 3 = 4.1$	D	$\log_{4.1} 90 = 3$
E	$\log_3 90 = 4.1$		

8 Convert the given exponent to the equivalent in logarithm form

$$3^{2.8} = 22$$

A	$\log_3 22 = 2.8$	B	$\log_{22} 3 = 2.8$
C	$\log_{22} 2.8 = 3$	D	$\log_{2.8} 3 = 22$