Math worksheet on *'Logarithms - Convert Logarithm to Exponent - From Decimal (Level 1)'*. Part of a broader unit on *'Logarithms - Intro'*

Learn online: app.mobius.academy/math/units/logarithms_intro/

1 Convert the given logarithm to the equivalent in exponent form

$$\log_2 4.59 = 2.2$$

a	$2^{2.2} = 4.59$	**b**	$2.2^{4.59} = 2$
c	$2.2^2 = 4.59$		

2 Convert the given logarithm to the equivalent in exponent form

$$\log_9 30,544.98 = 4.7$$

a	$30,544.98^9 = 4.7$	**b**	$30,544.98^{4.7} = 9$
c	$4.7^{30,544.98} = 9$	**d**	$4.7^9 = 30,544.98$
e	$9^{4.7} = 30,544.98$		

3 Convert the given logarithm to the equivalent in exponent form

$$\log_7 2,916.77 = 4.1$$

a	$4.1^{2,916.77} = 7$	**b**	$2,916.77^{4.1} = 7$
c	$4.1^7 = 2,916.77$	**d**	$7^{4.1} = 2,916.77$

4 Convert the given logarithm to the equivalent in exponent form

$$\log_5 90.6 = 2.8$$

a	$2.8^{90.6} = 5$	**b**	$2.8^5 = 90.6$
c	$90.6^5 = 2.8$	**d**	$5^{2.8} = 90.6$

5 Convert the given logarithm to the equivalent in exponent form

$$\log_5 106.42 = 2.9$$

a	$5^{2.9} = 106.42$	**b**	$2.9^{106.42} = 5$
c	$106.42^5 = 2.9$	**d**	$2.9^5 = 106.42$

6 Convert the given logarithm to the equivalent in exponent form

$$\log_9 4,227.87 = 3.8$$

a	$3.8^9 = 4,227.87$	**b**	$4,227.87^9 = 3.8$
c	$4,227.87^{3.8} = 9$	**d**	$9^{3.8} = 4,227.87$

7 Convert the given logarithm to the equivalent in exponent form

$$\log_2 4.29 = 2.1$$

a	$2.1^2 = 4.29$	**b**	$2.1^{4.29} = 2$
c	$4.29^{2.1} = 2$	**d**	$2^{2.1} = 4.29$

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