Math worksheet on *'Logarithms - Solve Exponent Equation (To Decimals) (Level 1)'*. Part of a broader unit on *'Logarithms - Intro'*

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

1 Use a logarithm to solve for the missing exponent

$$4^x = 106$$

a	x = 5.36	**b**	x = 2.36
c	x = 1.36	**d**	x = 4.36
e	x = 3.36		

2 Use a logarithm to solve for the missing exponent

$$6^x = 322$$

a	x = 5.22	**b**	x = 4.22
c	x = 2.22	**d**	x = 1.22
e	x = 3.22		

3 Use a logarithm to solve for the missing exponent

$$10^x = 24$$

a	x = 1.38	**b**	x = 2.38
c	x = 3.38	**d**	x = 0.38
e	x = -0.62		

4 Use a logarithm to solve for the missing exponent

$$10^x = 395$$

a	x = 4.6	**b**	x = 3.6
c	x = 0.6	**d**	x = 2.6
e	x = 1.6		

5 Use a logarithm to solve for the missing exponent

$$6^x = 366$$

a	x = 4.29	**b**	x = 2.29
c	x = 1.29	**d**	x = 5.29
e	x = 3.29		

6 Use a logarithm to solve for the missing exponent

$$8^x = 271$$

a	x = 4.69	**b**	x = 1.69
c	x = 3.69	**d**	x = 0.69
e	x = 2.69		

7 Use a logarithm to solve for the missing exponent

$$6^x = 113$$

a	x = 3.64	**b**	x = 0.64
c	x = 2.64	**d**	x = 1.64
e	x = 4.64		

