

Name: \_\_\_\_\_

Score: \_\_\_\_\_

<b>Exponents</b>
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MS2

Find the value of x to balance the equation.

1) $x^7 = 2187$  $x =$ _____	2) $16 = (-4)^x$  $x =$ _____	3) $256 = x^4$  $x =$ _____
4) $625 = (-5)^x$  $x =$ _____	5) $-512 = x^9$	6) $x^2 = 36$
7) $-1024 = x^5$  $x =$ _____	<div style="border: 2px solid #007bff; padding: 10px; background-color: #fff; margin: 0 auto; width: 80%;"> <h1 style="margin: 0; color: #007bff;">PREVIEW</h1> <p style="margin: 5px 0 0 0; color: #007bff;">Access the largest collection of worksheets for just <b>\$19.95</b> per year!</p> <div style="display: flex; justify-content: space-around; margin: 10px 0;"> <div style="background-color: #007bff; color: white; padding: 10px; border-radius: 10px; width: 45%; text-align: center;"> <p>Members, please log in to download this worksheet.</p> <p style="background-color: white; color: #007bff; border-radius: 5px; padding: 2px 10px; display: inline-block;">Log in</p> </div> <div style="background-color: #007bff; color: white; padding: 10px; border-radius: 10px; width: 45%; text-align: center;"> <p>Not a member? Please sign up to gain complete access.</p> <p style="background-color: white; color: #007bff; border-radius: 5px; padding: 2px 10px; display: inline-block;">Sign up</p> </div> </div> <p style="margin: 10px 0 0 0; color: #007bff; text-align: center;"><a href="http://www.mathworksheets4kids.com">www.mathworksheets4kids.com</a></p> </div>	
10) $x^6 = 64$  $x =$ _____	11) $1 = (-7)^x$  _____	12) $7 = x^3$  _____
13) $121 = (-11)^x$  $x =$ _____	14) $1296$  _____	15) $_____ = 12^x$  _____
16) $-1331 = x^3$  $x =$ _____	17) $x =$ _____	18) $x =$ _____
19) $x^3 = -125$  $x =$ _____	20) $196 = (-14)^x$  $x =$ _____	21) $-2197 = x^3$  $x =$ _____

Name: \_\_\_\_\_

Answer key

Score: \_\_\_\_\_

## Exponents

MS2

1) $x^7 = 2187$  $x = 3$	2) $16 = (-4)^x$  $x = 2$	3) $256 = x^4$  $x = 4$	
4) $625 = (-5)^x$  $x = 4$	5) $-512 = x^9$	6) $x^2 = 36$  $x = 6$	
7) $-1024 = x^5$  $x = -4$	<div data-bbox="462 682 1149 1600" data-label="Complex-Block"> <p style="text-align: center;"><b>PREVIEW</b></p> <p style="text-align: center;">Access the largest collection of worksheets for just <b>\$19.95</b> per year!</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="519 1123 803 1453" data-label="Text"> <p>Members, please log in to download this worksheet.</p> <p style="text-align: center;"><b>Log in</b></p> </div> <div data-bbox="820 1123 1096 1453" data-label="Text"> <p>Not a member? Please sign up to gain complete access.</p> <p style="text-align: center;"><b>Sign up</b></p> </div> </div> <p style="text-align: center;"><a href="http://www.mathworksheets4kids.com">www.mathworksheets4kids.com</a></p> </div>		
10) $x^6 = 64$  $x = 2$			7) $1 = (-7)^x$  $x = 4$
13) $121 = (-11)^x$  $x = 2$			8) $7 = x^3$  $x = 13$
16) $-1331 = x^3$  $x = -11$			9) $1296 = x^6$  $x = 6$
			12) $1296 = x^6$  $x = 6$
			15) $1296 = x^6$  $x = 6$
19) $x^3 = -125$  $x = -5$	20) $196 = (-14)^x$  $x = 2$	21) $-2197 = x^3$  $x = -13$	