


Name: _____

Score: _____

Exponents

MS1

Find the value of x to balance the equation.

1) $-1728 = x^3$ $x =$ _____	2) $x^3 = 729$ $x =$ _____	3) $256 = (-4)^x$ $x =$ _____		
4) $x^7 = -128$ $x =$ _____	5) $225 = (-15)^x$ $x =$ _____	6) $169 = x^2$ $x =$ _____		
7) $125 = 5^x$ $x =$ _____				
10) $36 = x^2$ $x =$ _____			8) $256 = x^2$ $x =$ _____	
13) $x^3 = 1331$ $x =$ _____			9) $64 = (-8)^x$ $x =$ _____	
16) $64 = (-2)^x$ $x =$ _____			12) $81 = x^2$ $x =$ _____	
19) $-8 = x^3$ $x =$ _____			15) $27 = x^3$ $x =$ _____	18) $343 = (-7)^x$ $x =$ _____
20) $x^3 = 3375$ $x =$ _____			21) $1296 = (-6)^x$ $x =$ _____	

Name: _____

Answer key

Score: _____

Exponents

MS1

1) $-1728 = x^3$ $x = -12$	2) $x^3 = 729$ $x = 9$	3) $256 = (-4)^x$ $x = 4$	
4) $x^7 = -128$ $x = -2$	5) $225 = (-15)^x$ $x = 2$	6) $169 = x^2$ $x = 13$	
7) $125 = 5^x$ $x = 3$	<div data-bbox="462 682 1149 1600" data-label="Complex-Block"> <p style="text-align: center;">PREVIEW</p> <p style="text-align: center;">Access the largest collection of worksheets for just \$19.95 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;">Log in</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;">Sign up</p> </div> </div> <p style="text-align: center;">www.mathworksheets4kids.com</p> </div>		
10) $36 = x^2$ $x = 6$			8) $256 = x^2$ $x = 16$
13) $x^3 = 1331$ $x = 11$			9) $64 = (-8)^x$ $x = 2$
16) $64 = (-2)^x$ $x = 6$			12) $x^2 = 4$ $x = 2$
19) $-8 = x^3$ $x = -2$			15) $x^3 = 3375$ $x = 15$
22) $-8 = x^3$ $x = -2$	20) $x^3 = 3375$ $x = 15$	21) $1296 = (-6)^x$ $x = 4$	