

Name: _____

Score: _____

Exponents

ES2

Find the value of x to balance the equation.

1) $36 = x^2$ $x =$ _____	2) $81 = 3^x$ $x =$ _____	3) $x^9 = 512$ $x =$ _____
4) $256 = 4^x$ $x =$ _____	5) $2744 = x^3$	6) $x^2 = 81$
7) $2197 = x^3$ $x =$ _____		$7 = 3^x$
10) $x^4 = 2401$ $x =$ _____		$= x^2$
13) $729 = 9^x$ $x =$ _____		$= 243$
16) $169 = x^2$ $x =$ _____		$= 3^x$
19) $x^2 = 121$ $x =$ _____	20) $3375 = 15^x$ $x =$ _____	21) $64 = x^3$ $x =$ _____

PREVIEW

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Name: _____

Answer key

Score: _____

Exponents

ES2

1) $36 = x^2$ $x = 6$	2) $81 = 3^x$ $x = 4$	3) $x^9 = 512$ $x = 2$		
4) $256 = 4^x$ $x = 4$	5) $2744 = x^3$ $x = 14$	6) $x^2 = 81$ $x = 9$		
7) $2197 = x^3$ $x = 13$	<div style="border: 2px solid blue; padding: 10px; text-align: center;"> <h1 style="color: blue; margin: 0;">PREVIEW</h1> <p style="color: blue; font-size: 1.2em; margin: 5px 0;">Access the largest collection of worksheets for just \$19.95 per year!</p> <div style="display: flex; justify-content: space-around; margin: 10px 0;"> <div style="background-color: #007bff; color: white; padding: 5px; border-radius: 10px; width: 40%;"> <p style="font-size: 0.8em; margin: 0;">Members, please log in to download this worksheet.</p> <p style="font-weight: bold; color: red; margin: 0;">Log in</p> </div> <div style="background-color: #007bff; color: white; padding: 5px; border-radius: 10px; width: 40%;"> <p style="font-size: 0.8em; margin: 0;">Not a member? Please sign up to gain complete access.</p> <p style="font-weight: bold; color: red; margin: 0;">Sign up</p> </div> </div> <p style="color: blue; font-size: 0.9em; margin: 10px 0;">www.mathworksheets4kids.com</p> </div>			
10) $x^4 = 2401$ $x = 7$			8) $7 = 3^x$ $x = 7$	
13) $729 = 9^x$ $x = 3$			9) $x^2 = 243$ $x = 5$	
16) $169 = x^2$ $x = 13$			10) $x^2 = 243$ $x = 3$	11) $x^2 = 243$ $x = 5$
19) $x^2 = 121$ $x = 11$			20) $3375 = 15^x$ $x = 3$	21) $64 = x^3$ $x = 4$