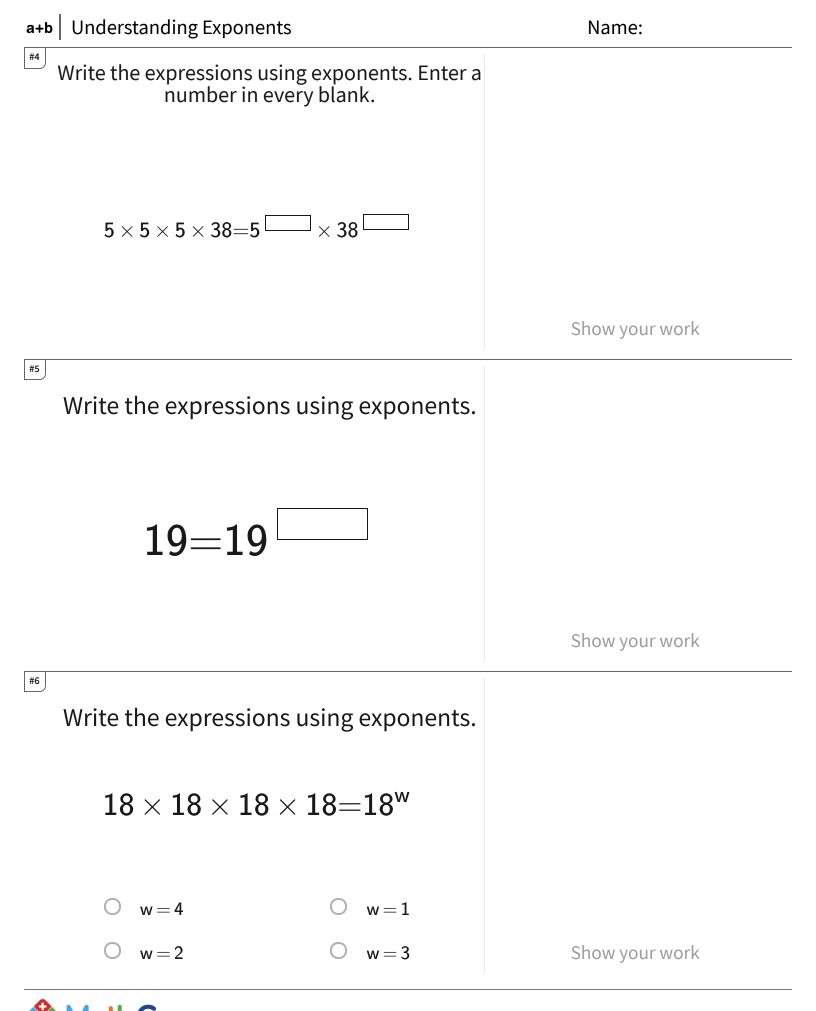
a+b Understanding Exponents	Name:
^{#1} Write the expressions using exponents.	
$27 \times 27 \times 27 \times 27 \times 27 = 27$	
	Show your work
^{#2} Write the expressions using exponents.	
$18 imes29{=}18^w29^x$	
O w = 2, x = 2 $O w = 4, x = 3$	
$\bigcirc w = 1, x = 1$ $\bigcirc w = 3, x = 4$	Show your work
^{#3} Write the expressions using exponents.	
$12\times12\times17\times17{=}12^w17^x$	
O w = 5, x = 1 $O w = 3, x = 5$	
O w = 1, x = 4 $O w = 2, x = 2$	Show your work

TeachMe, Inc. ©2025 All rights reserved.

Get more worksheets at http://www.mathgames.com/worksheets Play online at http://www.mathgames.com/skill/8.15 CC.8.15

Page 1 of 4



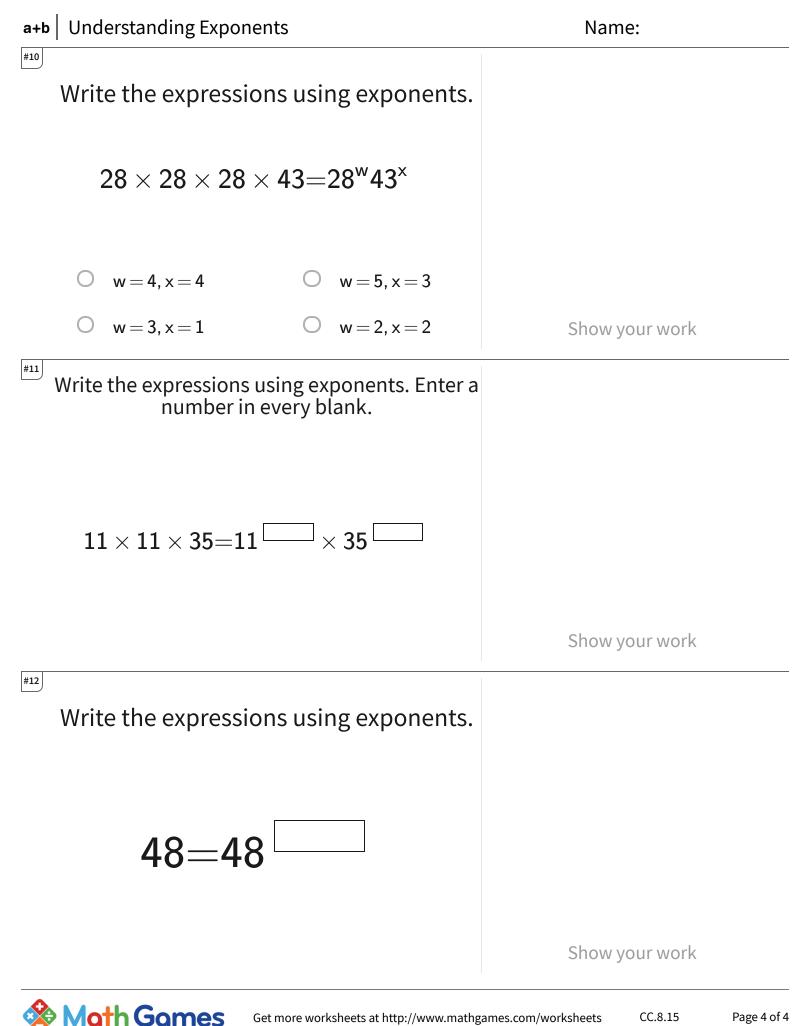
TeachMe, Inc. ©2025 All rights reserved.

Get more worksheets at http://www.mathgames.com/worksheets Play online at http://www.mathgames.com/skill/8.15 CC.8.15 Page 2 of 4

a+b Understanding Exponent	S	Name:
Write the expression	s using exponents.	
15 imes15	$=15^{w}$	
\bigcirc w = 2 \bigcirc w = 5	v = 1 v = 3	Show your work
^{#8} Write the expression	s using exponents.	
17 imes 17 imes	17=17 ^w	
○ w=2	○ w=1	
O w=5	O w=3	Show your work
Write the expression	s using exponents.	
41 imes 41 imes 41 imes 41	41=41	
		Show your work



CC.8.15 Page 3 of 4



Get more worksheets at http://www.mathgames.com/worksheets Play online at http://www.mathgames.com/skill/8.15

TeachMe, Inc. ©2025 All rights reserved.

Page 4 of 4

Question	Answer
#1	5
#2	choice 3
#3	choice 4
#4	3, 1
#5	1
#6	choice 1
#7	choice 1
#8	choice 4
#9	4
#10	choice 3
#11	2,1
#12	1

