Name _____

Algebra with Logarithms - Binomial and Constant

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1 Simplify and solve for w

$$\log_2 (4w - 8) = 5$$

A	B	C	D
$w = 12$	$w = 10$	$w = 9$	$w = 11$

2 Simplify and solve for r

$$\log_2 (5r - 8) = 5$$

A	B	C	D
$r = 10$	$r = 7$	$r = 8$	$r = 9$

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3 Simplify and solve for p

$$\log_2 (2p - 8) = 5$$

A	B	C	D
$p = 22$	$p = 19$	$p = 20$	$p = 21$

4 Simplify and solve for q

$$\log_6 (2q + 8) = 2$$

A	B	C	D
$q = 15$	$q = 13$	$q = 14$	$q = 16$

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5 Simplify and solve for w

$$\log_2 (2w - 4) = 5$$

A	B	C	D
$w = 19$	$w = 18$	$w = 20$	$w = 17$

6 Simplify and solve for t

$$\log_2 (2t + 6) = 5$$

A	B	C	D
$t = 15$	$t = 13$	$t = 12$	$t = 14$

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7 Simplify and solve for z

$$\log_9 (2z - 7) = 2$$

A	B	C	D
$z = 46$	$z = 44$	$z = 45$	$z = 43$

8 Simplify and solve for x

$$\log_4 (4x - 8) = 2$$

A	B	C	D
$x = 7$	$x = 8$	$x = 5$	$x = 6$