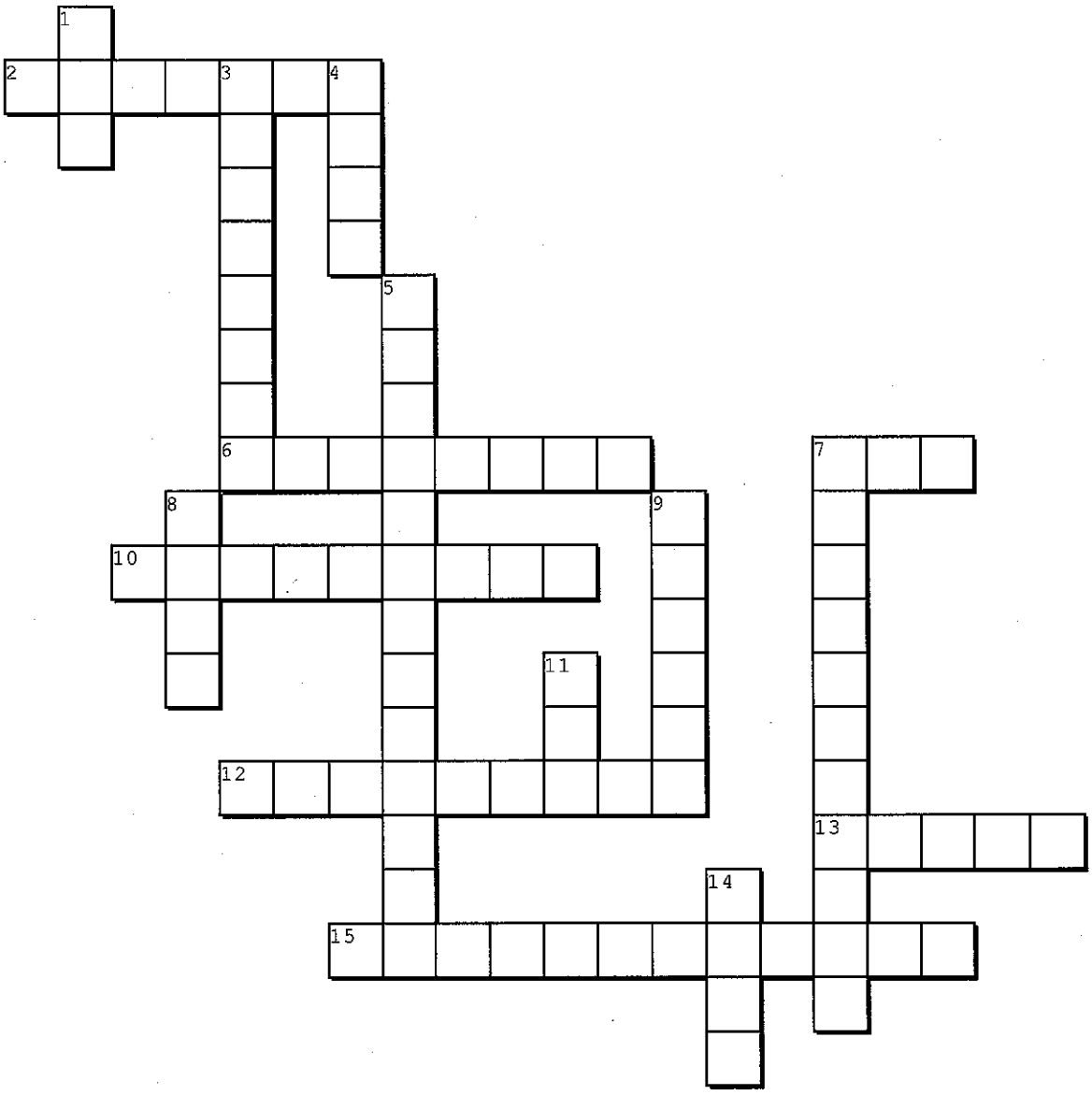
Algebra 2 Warm Up

Day 42 Change of Base Formula

	A	B	C
1. $\log 7 + \log x$	$\log 7x$	$\log \frac{7}{x}$	$\log 7^x$
2. $\log \sqrt{x}$	$\log x^2$	$\frac{1}{2}\log x$	$2\log x$
3. $\log 9 - \log 100$	$\log 900$	$\log \frac{9}{100}$	$\log 9^{100}$
4. $\log_6 \left(\frac{1}{36}\right)$	2	6	-2
5. $\log_7 \left(\frac{7}{49}\right)$	2	-1	1
6. $\log_2 32 + \log_2 8$	$5+3=8$	$16+4=20$	$-5+-3=-8$
7. $\log_9 1$	1	2	0
8. $10^? = 10$	0	1	2
9. $\log 100{,}000$	0	4	5
10. $\log_4 16$	0	1	2



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negativethree three two onehalf subtraction five four eightyone

negative logarithm circle six one negativefour zero addition

Horizontal

2. anytime you see a square root, that is something raised to this power
6. when a base is raised to this, you have to bump it down or up
7. what number, raised to the second, gives 36?
10. another name for a power
12. nine squared
13. log base 2 of 8
15. 3 to what power gives one over 81?

Vertical

1. anything to the zero power turns into this
3. multiplication of two terms in a logarithm becomes this when you expand it
4. 2 to what power gives 32
5. log base 2 of one over 8
7. division of two terms in a log becomes this when you expand
8. four to what power gives 256?
9. this helps you change from exponential form to logarithmic form
11. seven to what power gives 49?
14. when a base is raised to this, it turns into one