

1b) $nk + nw$

1c) $\frac{n}{r} + \frac{p}{r}$

3) Multiply 45 times one dollar and add 45 times 3 cents to get \$46.35

7) $12k - 2$

9) $18v - 48w + 54z^3$

10) $-7a^2 + 7ab$

12) $3 + \frac{3x}{4}$ To check your answer, pick any number and verify that you get the same answer for the initial expression and the final answer.

14) a; 8

16a) $12(13+17)$ or $12 \cdot 13 + 12 \cdot 17$

16b) $(156 + 12x)$ dollars (you need the parentheses to show the label applies to the final answer.

x	$(0.65x)^3$	2^x
-10	-274.625	$\frac{1}{1,024}$
-5	-34.3281	$\frac{1}{32}$
0	0	1
5	34.3281	32
10	274.625	1,024
15	926.859	32,768

18a)

18b) No. The expressions give different values for a given value of x .

21) \$1,442 (be sure to label)

23) -2, 5, 8 all make it true

25a) Any number other than zero or one is a counter-example. $6x \cdot 3x = 18x^2$, not $18x$ (this is bonus info!)

25b) Any number other than one is a counter-example. $\frac{6x}{3x} = 2$, not $2x$ (this is bonus info!)