Section 3.3 Exercises Part B

Simplify th	e following.		. 7 11 2
1.	$(3m^2)^3(2m^2)^3$	2.	$(x'x^{11})^{5}$
3.	$\frac{5f^{12}g^{-4}}{f^5g^7}$	4.	$t^8m^5t^5m^3$
5.	2 ⁻⁴	6.	$3x^{7}(4x^{2}-5x+3)$
7.	$\frac{12x^3z^{-5}}{3x^{-4}z^3}$	8.	$\left(\frac{17x^5}{23y^{19}}\right)^0$
9.	$(5p^{-5}g^8)^{-2}$	10.	$\left[\frac{28c^{-7}d^3}{21c^5d^{-7}}\right]^{-2}$
11.	$\left[\frac{15c^{-7}d^{3}}{35c^{5}d^{7}}\right]^{-3}$	12.	$5x^2 (4x^7 - 7x^6 + 5x^{-5})$

13. Why doesn't a negative exponent make the answer negative?

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14. Simple n = 1	15. Quarterly n = 4	16. Monthly n = 12	17. Daily n = 365
P = 200	P = 200	P = 200	P = 200
r = 8%	r = 8%	r = 8%	r = 8%
Y = 15	Y = 15	Y = 15	Y = 15
A =	A =	A =	A =

Using your calculator and the Savings Plan formulas, fill out the table for a savings account.

18. Simple n = 1	19. Quarterly n = 4	20. Monthly n = 12	21. Daily n = 365
P = 300	P = 300	P = 300	P = 300
r = 7%	r = 7%	r = 7%	r = 7%
Y = 15	Y = 15	Y = 15	Y = 15
A =	A =	A =	A =

Using a spreadsheet and the Future Value (FV) formula, fill out the table for a savings account. Put your results in a spreadsheet called "Savings and Loan Practice."

22. Simple n = 1	23. Quarterly n = 4	24. Monthly n = 12	25. Daily n = 365
P = 200	P = 200	P = 200	P = 200
r = 7%	r = 7%	r = 7%	r = 7%
Y = 15	Y = 15	Y = 15	Y = 15
A =	A =	A =	A =

Using a spreadsheet and the Future Value (FV) formula, fill out the table for a savings account. Put your results in a spreadsheet called "Savings and Loan Practice."

26. Simple n = 1	27. Quarterly n = 4	28. Monthly n = 12	29. Daily n = 365
P = 300	P = 300	P = 300	P = 300
r = 8%	r = 8%	r = 8%	r = 8%
Y = 15	Y = 15	Y = 15	Y = 15
A =	A =	A =	A =

Using your calculator, find the monthly (n = 12) payment for the following loans.

30.	31.	32.	33.
P = 300	P = 3000	P = 1500	P = 23,000
r = 8%	r = 9%	r = 15%	r = 8%
$\mathbf{Y} = 2$	$\mathbf{Y} = 5$	Y = 12	Y = 30
PMT =	PMT =	PMT=	PMT =

Using a spreadsheet and the Payment (PMT) formula, find the monthly (n = 12) payment for the following loans. Put your results in a spreadsheet called "Savings and Loan Practice."

34.	35.	36.	37.
P = 300	P = 3000	P = 1500	P = 23,000
r = 8%	r = 9%	r = 15%	r = 8%
$\mathbf{Y} = 2$	$\mathbf{Y} = 5$	Y = 12	Y = 30
PMT =	PMT =	PMT=	PMT =

Using a spreadsheet and the Payment (PMT) formula, find the monthly (n = 12) payment for the following loans. Put your results in a spreadsheet called "Savings and Loan Practice."

38.	39.	40.	41.
P = 500	P = 4800	P = 2500	P = 23,000
r = 4%	r = 9%	r = 15%	r = 8%
$\mathbf{Y} = 2$	$\mathbf{Y} = 5$	Y = 12	Y = 20
PMT =	PMT =	PMT=	PMT =

42. Ensure that every member of the group is able to put in the formulas and use the spreadsheet to do the calculations.

1.	216m ¹²	28.	992.08
2.	x ⁵⁴	29.	995.90
3.	$\frac{5f^{7}}{11}$	30.	13.57
4.	$t^{13}m^8$	31.	62.28
5.	1	32.	22.51
6.	$16 \\ 12x^9 - 15x^8 + 9x^7$	33.	168.77
7.	4x ⁷	34.	13.57
8	z ⁸ 1	35.	62.28
9	p ¹⁰	36.	22.51
).	25g ¹⁶	37.	168.77
10.	$\frac{9c^{24}}{16d^{20}}$	38.	21.71
11	343c ³⁶ d ¹²	39.	99.64
11.	125	40.	37.52
12.	$20x^9 - 35x^8 + 25x^{-5}$	41.	192.38
13	Negative exponents mean	42.	Complet

- **13.** Negative exponents mean division
- **14.** 634.43
- **15.** 656.21
- **16.** 661.38
- **17.** 663.94
- **18.** 827.71
- **19.** 849.54
- **20.** 854.68
- **21.** 857.21
- **22.** 551.81
- **23.** 566.36
- **24.** 569.79
- **25.** 571.47
- **26.** 951.65
- **27.** 984.31

42. Complete only when everyone understands and can enter the formulas on their own.