

Name _____

Date _____

Additional Exercises 6.5
Form I
Dividing Polynomials

Perform the indicated operation.

1. $\frac{2^5}{2^3}$

1. _____

2. $\frac{x^{11}}{x^9}$

2. _____

3. $\frac{x^4 y^6}{x^2 y^2}$

3. _____

4. 2^0

4. _____

5. -3^0

5. _____

6. (-5^0)

6. _____

7. $7y^0$

7. _____

8. $(8x)^0$

8. _____

9. $\left(\frac{-2}{a}\right)^2$

9. _____

10. $\left(\frac{3x^2}{y}\right)^3$

10. _____

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11. $\left(\frac{2pv^2}{s^3}\right)^2$

11. _____

12. $\frac{-20x^6}{5x^2}$

12. _____

13. $\frac{15x^5y^2z^3}{3x^2yz^2}$

13. _____

14. $\frac{-36x^7y^5}{6x^2y^2}$

14. _____

15. $\frac{-2x^5}{6x^4}$

15. _____

16. $\frac{7x^5y^7}{15x^5y^7}$

16. _____

17. $\frac{21r^6 - 14r^3}{7}$

17. _____

18. $\frac{-5x^{10} + 10x^7}{-5x^5}$

18. _____

19. $\frac{30x^7 + 40x^6}{10x^3}$

19. _____

20. $\frac{18x^5y^4 - 27x^7y^5 + 36x^3y^3}{9x^3y^3}$

20. _____

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Additional Exercises 6.5
Form II
Dividing Polynomials

Perform the indicated operation.

1. $\frac{4^6}{4^4}$

1. _____

2. $\frac{x^{15}}{x^{10}}$

2. _____

3. $\frac{x^{13}y^7}{x^2y^3}$

3. _____

4. 3^0

4. _____

5. -2^0

5. _____

6. $(-4)^0$

6. _____

7. $12y^0$

7. _____

8. $(9y)^0$

8. _____

9. $\left(\frac{-3}{a}\right)^2$

9. _____

10. $\left(\frac{4x^3}{y^2}\right)^4$

10. _____

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11. $\left(\frac{2p^3v^4}{s^4}\right)^2$

11. _____

12. $\frac{-40x^{13}}{5x^4}$

12. _____

13. $\frac{20x^{12}y^{11}z^3}{4x^4y^2z^2}$

13. _____

14. $\frac{-64x^{12}y^5}{8x^2y^2}$

14. _____

15. $\frac{-3x^{11}}{12x^7}$

15. _____

16. $\frac{8x^6y^{13}}{11x^6y^{13}}$

16. _____

17. $\frac{15r^7 - 25r^4}{5}$

17. _____

18. $\frac{-8x^{10} + 4x^7}{-2x^4}$

18. _____

19. $\frac{20x^{12} + 50x^8}{5x^4}$

19. _____

20. $\frac{16x^7y^8 - 32x^5y^6 - 36x^3y^4}{4x^3y^4}$

20. _____

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Additional Exercises 6.5
Form III
Dividing Polynomials

Perform the indicated operation.

1. $\frac{11^8}{11^2}$

1. _____

2. $\frac{x^{21}}{x^{17}}$

2. _____

3. $\frac{x^{11}y^5}{x^9y^2}$

3. _____

4. 9^0

4. _____

5. -11^0

5. _____

6. $(-8)^0$

6. _____

7. $18y^0$

7. _____

8. $(15y)^0$

8. _____

9. $\left(\frac{-7}{a^5}\right)^2$

9. _____

10. $\left(\frac{5x^5}{y^3}\right)^4$

10. _____

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11.
$$\left(\frac{5p^6v^8}{s^7}\right)^2$$

11. _____

12.
$$\frac{-80x^{17}}{-10x^5}$$

12. _____

13.
$$\frac{45x^{18}y^{13}z^{12}}{15x^7y^5z}$$

13. _____

14.
$$\frac{-98x^{15}y^4}{49x^{12}y}$$

14. _____

15.
$$\frac{-7x^{10}}{12x^5}$$

15. _____

16.
$$\frac{17x^7y^{12}}{23x^7y^{12}}$$

16. _____

17.
$$\frac{34x^8 - 51x^5}{17}$$

17. _____

18.
$$\frac{-49x^7 + 42x^5}{-7x^3}$$

18. _____

19.
$$\frac{55x^8 + 33x^5}{11x^2}$$

19. _____

20.
$$\frac{50x^7y^8 - 40x^5y^6 - 90x^3y^4}{10x^3y^4}$$

20. _____