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FRACTIONS

Add/subtract the fractions and simplify the result.

example:

$$1. \frac{4}{6} + \frac{1}{12} = \frac{9}{12} = \frac{3}{4}$$

$$2. \frac{3}{6} - \frac{4}{10} =$$

$$3. \frac{3}{6} + \frac{2}{3} =$$

$$4. \frac{7}{9} - \frac{1}{9} =$$

$$5. \frac{1}{5} + \frac{4}{12} =$$

$$6. \frac{3}{5} - \frac{3}{10} =$$

$$7. \frac{4}{12} + \frac{3}{4} =$$

$$8. \frac{4}{6} - \frac{1}{12} =$$

$$9. \frac{17}{7} + \frac{4}{7} =$$

$$10. \frac{11}{3} - \frac{5}{5} =$$

$$11. \frac{7}{8} + \frac{6}{4} =$$

$$12. \frac{4}{6} - \frac{1}{2} =$$

$$13. \frac{9}{3} + \frac{3}{8} =$$

$$14. \frac{3}{4} - \frac{1}{3} =$$

$$15. \frac{1}{12} + \frac{3}{7} =$$

$$16. \frac{3}{4} - \frac{3}{7} =$$

2. 1/10, 3. 7/6, 4. 2/3, 5. 8/15, 6. 3/10, 7. 13/12, 8. 7/12, 9. 3, 10. 8/3, 11. 19/8, 12. 1/6, 13. 27/8, 14. 5/12, 15. 43/84, 16. 9/28

answer key

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Name _____	Date _____	
Exponent Rules		
Use laws of exponents and simplify. Write your answers in positive exponents.		
1) $\left(\frac{x^2y^3}{x^2y}\right)^4$	2) $(a^3b)^4(a^4b^2)^3$	3) $\left(\frac{(3m^2n^3)^4}{2mn^2}\right)^5$
4) $(3p^2q^3)(2p^2q)^2$	5) $\frac{(8a^{12})(2k^6)}{4a^{14}}$	6) $(b^{12}c^{15})(d^2e^{10})^{14}$
7) $\left(\frac{4m^2}{3^2n^4}\right)^3$	8) $\left(\frac{2x^{-3}y^4}{x^2y^3}\right)(3x^2y^{-10})$	9) $(a^{-2}b^3)^4\left(\frac{3a^{-1}b^2}{3a^2b^{-10}}\right)$
10) $\frac{8a^2b^{-10}}{(2a^{-3}b^4)(y^2w)}$	11) $\left(\frac{3a^{-2}b^3}{8x^2y^3}\right)^{-10}$	12) $(3f^{-2}m^3)(2mn^4)^2(2m^2)^{-4}$
13) $(4a^2b^3)^{-2}(a^{-3}b^2)^2(a^{-4}b^5)^{-3}$	14) $\left(\frac{6a^{-2}b^3}{2xy^2z^2}\right)^{-4}$	15) $\frac{(2a^{-2}b)(16b^2c^{-2})}{4c^{-10}}$

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