

PRACTICE FINAL – Math 815

A. Add, subtract, multiply or divide.

1. $2 + ^{-}10 + ^{-}6 + 1$

2. $^{-}60 \div 10 \div ^{-}3$

B. Simplify

1. $10 - 30 \div 2$

3. $3(2 - 7) - (^{-}5 + 1)$

2. $^{-}3 + |6 \cdot ^{-}2| \div 4$

C. Solve each equation.

1. $4 + m = -1$

4. $-3k = 18$

2. $3t + 9t = 20 - 10 + 26$

5. $6p - 2 = 4p + 6$

3. $-3(5+x) = 4(x-2)$

D. Write an algebraic expression, using x as the variable.

1. 8 plus a number

2. double a number

E. Translate each sentence into an equation and solve it.

1. If four times a number is decreased by 2, the result is 26. Find the number.

F. Divide. Write the quotients in lowest terms.

1. $\frac{9}{5} \div \frac{18}{11}$

G. Find the sum or difference. Write all answers in lowest terms.

1. $\frac{5}{8} + \frac{3}{4}$

2. $-\frac{2}{9} + \frac{5}{6}$

H. Find the exact answer in simplest form.

1. Melissa worked $18\frac{3}{4}$ hours over the last five days. If she worked the same amount each day, how long was she at work each day? Answer as a mixed number.

I. Simplify.

1. $\frac{-3}{4} + \frac{3}{5} \left(\frac{-1}{2} + \frac{5}{6} \right)$

J. Solve each equation. Answer in simplest form.

1. $\frac{1}{6}n + 7 = 9$

K. (2pt each) Round each number to the place indicated.

1. 8.16492 to the nearest tenth

L. Find each sum or difference.

1. $-2.31 + (-8.6)$

M. Find each product.

1. $-5.16(2.3)$

N. Simplify by using the order of operations.

1. $25.1 + 11.4 \div 7.5(-3.75)$

O. Solve each problem. Round percent answers to the nearest tenth of a percent, if when necessary.

1. Jean received a score of 75% on her exam. If she got 45 questions right, how many total questions were on the exam?

P. Use the product rule to simplify each expression. Write each answer in exponential form.

1. $x^{10} \cdot x \cdot x^2$

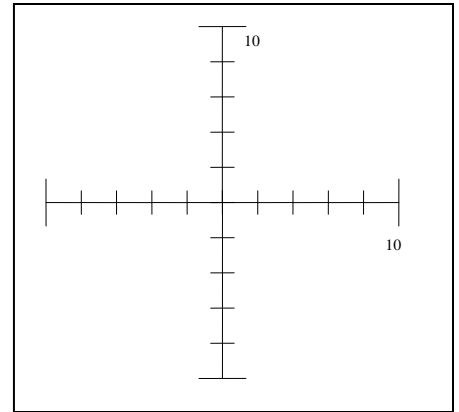
Q. Use the power rules for exponents to simplify each expression. Write each answer in exponential form.

1. $(2gh^2)^9$

R. Graph each equation. Make your own table using the listed values of x.

1. $y = 2x - 3$ Use 1, 2, and 3 as values of x.

X	Y	Ordered Pair (x, y)



S. Perform the indicated operations on polynomials.

1. $(4x + 2) - (6x - 3)$

T. Find each product.

1. $5x^3(4x^6 + 7x)$

2. $(2x + 7)(3x + 4)$

Answers for Practice Math 815 Final

A1: -13

A2: 2

B1: -5

B2: 0

B3: -11

C1: -5

C2: 3

C3: -1

C4: -6

C5: 4

D1: $8+x$

D2: $2x$

E1: 7

F1: $\frac{11}{10}$ OR $1\frac{1}{10}$

G1: $\frac{11}{8}$ OR $1\frac{3}{8}$

G2: $\frac{11}{18}$

H1: $3\frac{3}{4}$ HOURS

I1: $\frac{-11}{20}$

J1: 12

K1: 8.2

L1: -10.91

M1: -11.868

N1: 19.4

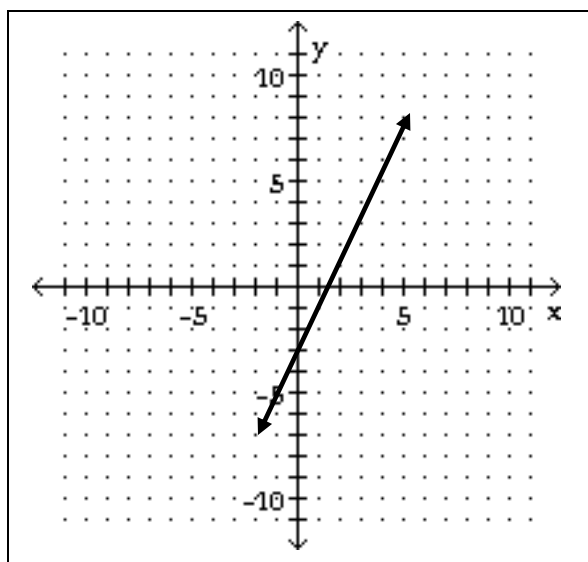
O1: 60

P1: X^{13}

Q1: $2^9 g^9 h^{18}$

R1:

X	Y	Ordered Pair (x,y)
1	-1	(1, -1)
2	1	(2,1)
3	3	(3,3)



S1: $-2X + 5$

T1: $20X^9 + 35X^4$

T2: $6X^2 + 29X + 28$