

3.4**Homework**

Solve the equation. Check your solution.

1. $\frac{d}{5} = -6$

2. $8x = -6$

3. $-15 = \frac{z}{-2}$

4. $3.2n = -0.8$

5. $-\frac{3}{10}h = 15$

6. $-1.1k = -1.21$

Write the word sentence as an equation. Then solve.

7. A number divided by -8 is 7 .8. The product of -12 and a number is 60 .9. You earn $\$0.85$ for every cup of hot chocolate you sell. How many cups do you need to sell to earn $\$55.25$?

Extension
3.4**Practice**

How do you factor an expression?

Homework

Factor the expression using the GCF.

1. $81 - 18$

2. $60 + 100$

3. $28 - 20$

4. $72 + 48$

5. $12x + 18$

6. $15y + 40$

7. $16y^2 - 32y$

8. $13x + 39y$

9. The length of a rectangle is 6 inches and its area is $(18x + 24)$ square inches. Write an expression for the width.

10.7

Practice A

Find the sum or difference. Write your answer in scientific notation.

1. $(2 \times 10^4) + (5 \times 10^4)$

2. $(3.5 \times 10^{-3}) + (1 \times 10^{-3})$

3. $(8.3 \times 10^{-5}) - (4.4 \times 10^{-5})$

4. $(7.2 \times 10^9) - (5.8 \times 10^9)$

5. $(7.4 \times 10^{-6}) + (5 \times 10^{-6})$

6. $(7.13 \times 10^{12}) + (8.04 \times 10^{12})$

Find the product or quotient. Write your answer in scientific notation.

7. $(1 \times 10^5) \times (4 \times 10^2)$

8. $(8 \times 10^5) \div (4 \times 10^5)$

9. $(2 \times 10^{-4}) \times (3 \times 10^7)$

10. $(9 \times 10^7) \div (3 \times 10^2)$

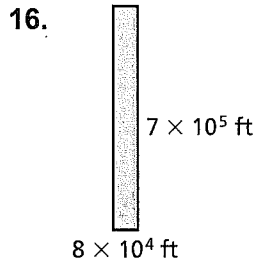
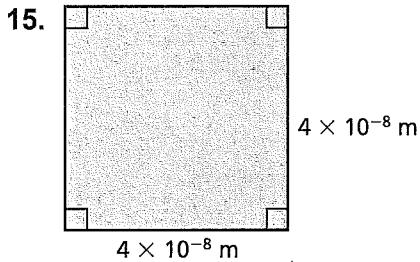
11. $(6 \times 10^{-12}) \times (7 \times 10^{-9})$

12. $(8 \times 10^5) \times (8 \times 10^5)$

13. $(2 \times 10^{-3}) \times (1.1 \times 10^2)$

14. $(9 \times 10^{-7}) \times (2.5 \times 10^3)$

Find the area of the figure. Write your answer in scientific notation.



17. The table shows the volumes of the three largest giant sequoia trees. Which tree has the greatest volume? How much greater is its volume than each of the other two trees?

Tree Name	Volume (cubic feet)
General Grant	4.66×10^4
General Sherman	5.25×10^4
Washington	4.785×10^4

Ms. Frost

RSCS

Name: _____

Class: _____

Date: _____

Multiplying and Dividing Numbers in Scientific Notation HW

SHOW WORK ON A SEPARATE SHEET OF PAPER!

Simplify. Write each answer in scientific notation.

1) $(8.18 \times 10^{-6})(1.15 \times 10^{-5})$

2) $(5.8 \times 10^{-6})(2 \times 10^4)$

3) $(0.8 \times 10^4)(1.28 \times 10^6)$

4) $(3.8 \times 10^{-6})(2.37 \times 10^{-3})$

5) $(1.9 \times 10^{-3})(2 \times 10^4)$

6) $(9.2 \times 10^5)(4 \times 10^{-3})$

7) $\frac{7.8 \times 10^4}{8 \times 10^1}$

8) $\frac{5.3 \times 10^3}{7.65 \times 10^5}$

9) $\frac{4.6 \times 10^2}{5.01 \times 10^{-7}}$

10) $\frac{7.6 \times 10^0}{5.4 \times 10^{-6}}$

11) $\frac{5.5 \times 10^{-1}}{5.3 \times 10^2}$

12) $\frac{2.04 \times 10^{-1}}{2 \times 10^{-2}}$

Name _____ Date _____

3.3 Practice A**Solve the equation. Check your solution.**

1. $x + 3 = 10$

2. $b - 6 = -14$

3. $5 = n + 9$

4. $y - 2.1 = 7.5$

5. $-6.4 = x + 4.3$

6. $k - \frac{1}{3} = \frac{5}{6}$

7. $10.5 + p = -8.32$

8. $3\frac{3}{4} = r + \frac{1}{8}$

9. $m + 1.06 = 5$

10. $-\frac{7}{12} = \frac{5}{6} + d$

11. $t - \frac{2}{7} = \frac{1}{2}$

12. $-10.2 + c = -8.14$

Write the word sentence as an equation. Then solve.

13. 5 more than a number y is -2 .

14. The sum of 8 and a number h is 12.

15. -13 is 4 less than a number n .

In Exercises 16–20, write an equation. Then solve.

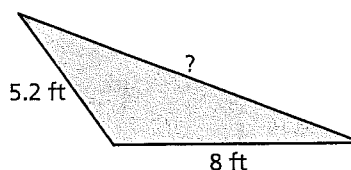
16. You earn \$9 per hour babysitting. This is \$2 more than what you earned per hour last year. What did you earn per hour last year?

17. Your mother asked you to turn the oven down to 325°F . This is 75°F less than it was. What was the original temperature?

18. The difference between the heights of your chair and your desk is $-10\frac{1}{4}$ inches. The height of your desk is $29\frac{3}{4}$ inches. What is the height of your chair?

19. Your Two-Day-Pass to a theme park is \$76.50. This is \$31.41 less than your uncle's Two-Day-Pass. What is the price of your uncle's pass?

20. The perimeter of a triangle is 25 feet.
What is the length of the unknown side?



21. Find the value of $3x + 2$ when $7 + x = 5$.