

Name: Ms. Napolitano Activity #;

01 Homework

Exercise 1 (answer key starts an page 19)
1) In the number 78.9, what digit (number) is in the tenths place?
2) In the number 78,9, what digit (number) is in the ones place?
3) In the number 78.9, what digit (number) is in the tens place?
4) In the number 6174.903, what digit is in the thousands place?
5) In the number 6174.903, what digit is in the thousandths place?
6) In the number 6174.903, what digit is in the hundredths place?
7) In the number 6174.903, what digit is in the tenths place?
8) In the number 6174.903, what digit is in the ones place?
9) In the number 6174.903, what digit is in the tens place?
10) In the number 6174.903, what digit is in the hundreds place?

Exercise 2

10.

Directions: translate the following numbers from English into decimal numbers

1. Twenty-nine 2. Eighty-one hundredths 3. Nine thousand thirty-four and seven tenths 4. One and four thousandths 5. One hundred and sixty-two thousandths 6. Forty-five hundredths 7. Four thousand three hundred twenty-one ten-thousandths 8, One hundred twenty and five tenths 9. Seventeen thousandths

Add. Use decimal models.

One and seven tenths

1.
$$2.46 + 1.13$$

9. The length of a nickel is 2.1 centimeters. What is the length of two nickels laying side by side?

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02 Homework

Study the example problem showing how to subtract decimals. Then solve problems 1–5.

Charlie collected 3.8 pounds of shells at the beach. Sebal collected 1.55 pounds of shells. How many more pounds did Charlie collect than Sebal?

To solve, subtract 1.55 from 3.8. Use a place-value chart to help. Regroup as needed to subtract.

*		ones			tenths	bentauri	
Charle's shell	•	3			3	O	
		- a	1.		#		ar i var
Sebal subcis		100		i.	5	5	

3 ones — 1 one = 2 ones 7 tenths — 5 tenths = 2 tenths 10 hundredths — 5 hundredths = 5 hundredths

Difference = 2 ones + 2 tenths + 5 hundredths

Charlie collected 2.25 pounds more than Sebal.

Explain	why	you	have	to	USĽ	regr	ouping	in	the
exampl	e pro	bler	n?						

You can also subtract decimals by writing the problem vertically, lining up the decimal points to keep track of the place values.

3,88 - 1.55

The problem to the right is partially completed.

How does the regrouping shown relate to the place-value method used in the example?

- 201	
	요. 그런데 보고 있는데 보고 있는데 이 전에 되는데 보고 있는데 보고 있다.
	Armoving composition, Allison scored 28.5 on her first the state of the second
	dice Hamah's score enther first dice was 74 as Hove
	diany-more paints did Allison score on her first dive
	thus Hannah?
	Show your work.
	Solition
S. T.	Continue to the 1 of the december of some than making range as
18.4	Franklin hiked 1.38 kilometers from the nature center to the waterfall. Then he hiked 2.6 kilometers to the
	bridge. Finally, he hiked 3.45 kilometers to return to
	the nature center. How many kilometers did Franklin
	hike in all?
	Show your work.
	Solution:
New S	Dharma and Jorge are looking at cell phone plans. A
	group plan will cost an average of \$135.95 per month.
	An individual plan will cost an average of \$72.75 per
	month. Should Dharma and Jorge purchase a group
	plan or two individual plans? How much money Could
	they save?
	·
	Show your work.
	Solution;

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	4-14 WELSEE AT 14-14 1-14 WELSEE AT 14-14-14			
ive the	problems.			
	the Care surreine	Nasalis e e e e	ored 9.85. Mary Lou	and the second of the second o
			r was Nadia's score on	You can write Os to
	floor exercise?	c		help you keep the
	ow your work.			place values aligned.
2116	sw your work.			
Sol	ution:		er t	
gua .	1 a¥		and the American	Market of a company of a contribute about in the cold information distribution defaultions in the cold
			pencil is 9.36 inches nches long. The third	How many inches
			I placing the pencils end	
	end make a total le			
	ow your work.			
	or your reas.			
			•	
Sol	ution:			
	ri walkad 2 805 mil	ac tracter	rday. Today she walked	
W. A. C.		~	es did Terri walk today	Which number is the
	in yesterday?			greater number?
	1.675 miles	gree.	1.785 míles	
Α	roto miles	C	1.703 HINE)	

	l' backpack weight 3.54 pounds, Sarah's pack igus 2129 pound. Frank's pack weight 2.8 nounds act Trae of Fuke for each statement.	Besure had you
	Halssback, ack weights 1.429-pounds on main Saran's. False	evalpate each
\$/.	The combined weight of the backpacks is more than 8.5 pounds. True False	
S.	Frank's backpack is 0.671 pound heavier than Sarah's. True False	
d.	Hal's backpack is less than I pound heavier than Frank's. True False	
₩I	nich of these equals 2,427? Select all that apply.	Be sure that you
A	1.34 + 1.087	add or subtract
8	1.4 + 1.027	digits with the same
¢.	8.35 - 5 .923	nace value.
D	6 - 3.573	
₹%-Kr	istin weighs three kittens at a vet's clinic. The	
136	eaviest one weighs 3.28 pounds. The heaviest kitten 1.056 pounds heavier than the medium-weight one. The lightest kitten is 1.2 pounds lighter than the edium-weight kitten. What is the total weight of the ttens?	How can you find the weights of the medium-weight and lightest kittens?
Si	now your work.	G F F
Sc	HUTION:	aan omigen op in opgegope produkke kom i 1986 diskriberational metter (in terkinisk skriberations). In diskriberation

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									= Ac				
AS. P													
		Total Secretary											

Solve the problems.

- Randy rode his bike 1.23 miles to school from his house. After school, he rode 0.9 mile farther to the library. Randy biked home along the same route, stopping at a park 1.05 miles from the library. How many miles is the park from Randy's house?
 - A 3.18
 - 器 2.37
 - C 1.08
 - O 0.27
- Z Tim tracked the change in outside temperature one afternoon. He recorded a temperature of 85.4°F at noon. The temperature then rose 3.85°F over the next 4 hours. At 5:00 pts, Tim recorded a temperature of 89.25°F. How did the temperature change between 4:00 pts and 5:00 pts?
 - A The temperature increased 0.8°F.
 - The temperature decreased 0.2°F.
 - C The temperature increased 1°F.
 - **D** There is no change in temperature.

- 3 Tell whether each equation is True or False.
 - a. 198.5 42.81 = 155.69

 - c. 37.04 + 56.20 = 93.6
 - **d.** 70.64 (9.3 29.36) = 90.7True False
 - e. 38.2 (11.11 23.76) = 3.33True False
- The sum of three decimal numbers is 6.

 Exactly one of the numbers is less than 1.

 What could those numbers be?

Show your work.

Answer

Homework Packet for Equations

All of your work must be shown in your homework notebook!

Day 12: One-step multiplying and dividing equations:

Solve the equation. Check your solution.

1.
$$16t = 60$$

2.
$$1.5 = 3.3y$$

3.
$$\frac{1}{8}d = -\frac{3}{5}$$

4.
$$\frac{d}{1.2} = -3.3$$

5.
$$18 = -\frac{6}{11}h$$

6.
$$-7.24q = 17.014$$

In Exercises 7 and 8, write an equation. Then solve.

- 7. If a project is handed in late, you receive $\frac{8}{9}$ of your earned points. You received 72 points on your late project. How many points did you lose?
- 8. There are 92 students in a room. They are separated into 18 groups. How many students are in each group? How many students are not in a group?
- 9.A bus token costs \$1.75.
 - a. You spend \$15.75 on tokens. Write and solve an equation to find how many tokens you purchase.
 - b. If you purchase 10 tokens, you get 2 free tokens. Write and solve an equation to find the approximate reduced price of each token.
 - c. You also receive free tokens if you purchase 20 tokens. The reduced price for each token is \$1.40. Write and solve an equation to find how many free tokens you receive.

10. Solve
$$\frac{1}{3}|z| = 2$$
.

Day 13: Solving two-step equations

Solve the equation. Check your solution

1.
$$3k - 2 = 10$$

2.
$$5p + 2 = -10$$

3.
$$-4x + 3 = -11$$

$$4.12 = 2d + 3.2$$

5.
$$-1 - 5h = 14$$

6.
$$1.25r - 7 = 2.5$$

$$7.-4k + 3.6 = 7.8$$

8.
$$\frac{5}{6} + 3j = \frac{2}{3}$$
 9. $\frac{1}{2}b + \frac{9}{4} = \frac{7}{4}$

9.
$$\frac{1}{2}b + \frac{9}{4} = \frac{7}{4}$$

Day 14: Solving two-step equations [combining like terms or using the distributive property before solving]

Solve the equation. Check your solution.

1)
$$\frac{9}{10}p - 3 = \frac{3}{5}$$

2)
$$5x - 7x = -22$$

3)
$$-9 + 6c + 10 - 10c = -43$$

4)
$$6(c + 5) = 25$$

5)
$$3(k-5) = -16$$

6)
$$-2(m+1) = 10$$
-

Day 15: Solving two-step equations.

Solve the equation. Check your solution.

1.
$$5k - 8 = 7$$

2.
$$6b + 9 = -15$$

2.
$$6b + 9 = -15$$
 3. $-3.2w - 2 = -4.5$

4.
$$13 - 2n = 27$$

5.
$$25 = 4.5z + 12$$

6.
$$5.25s - 2.01 = -8.94$$

7.
$$7c - 2c = 45$$

8.
$$\frac{-2}{7}$$
 (5 - y) = $\frac{-6}{7}$

7.
$$7c - 2c = 45$$
 8. $\frac{-2}{7}(5-y) = \frac{-6}{7}$ 9. $-2(1+c) + 4c = -9$

Day 16: Write and solve two-step equations

Solve the equation. Check your solution.

$$1.\frac{1}{4}z - \frac{2}{7} = \frac{5}{7}$$

2.
$$3 - \frac{r}{8} = -\frac{9}{2}$$

2.
$$3 - \frac{r}{8} = -\frac{9}{2}$$
 3. $-\frac{1}{3} + 5e = -\frac{3}{4}$

$$4.14d - 2d = -84$$

5.
$$-5g - 13g = 54$$
 6. $-3(t - 8) = 32$

6.
$$-3(t-8) = 32$$

In Exercises 7 - 10, write an equation. Then solve.

- 7. Ethan planted a tree that is 37.5 inches tall. If the tree grows 3 inches each year, how long will it take for the tree to reach a height of 54 inches?
- 8. A music download service charges a flat fee each month and \$0.99 per download. The total cost for downloading 27 songs this month is \$42.72. How much is the flat fee?
- 9. Kayla's age is 3 less than twice her brother's age. Kayla is 13 years old. How old is her brother?
- 10. Mario spent \$23.85 at the bookstore on one book and some magazines. The book cost \$12.60 and the magazines cost \$2.25 each. How many magazines did Mario buy?

Day 17: Write and solve two-step equations and review of expressions.

Find the sum or difference.

$$(4y+3)-(y-2)$$

$$(3p-7)+(5p-6)$$

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

$$(5b-9)-3(8-2b)$$

Factor out the coefficient of the variable.

3.
$$9x - 36$$

4.
$$\frac{1}{5}k + 15$$

Solve the equation. Check your solution.

$$5. -5x - 2x + 3x = 9$$

5.
$$-5x - 2x + 3x = 9$$
 6. $-5(m+4) = 27$ 7. $-12(a-2) = -50$

7.
$$-12(a-2) = -50$$

In Exercises 8-10, write an equation. Then solve.

- 8. You purchased \$132.49 worth of wheels and bearings for your skateboards. The shop charges \$15 per board to install them. The total cost is \$192.49. How many skateboards will be repaired?
- 9. The perimeter of a triangle is 60 feet. One leg is 12 feet long. Of the two unknown sides, one of them is twice as long as the other. Find the lengths of the two unknown sides.
- 10. Sally picks seashells by the seashore. She lost 17 of them on her way home. She planned to fill 5 jars with the same amount of seashells in each. How many seashells did Sally pick?
 - a. You do not have enough information to solve this problem. The number of seashells in each jar is the same as the number portion of her street address, which is a 2-digit number. The first digit is 5. The last digit is 9 less than 3 times the first digit. How many seashells did Sally plan to put in each jar?
 - b. By working backwards, determine how many seashells Sally picked.
 - c. The 5 jars that Sally chose would not each hold that many seashells. In her search for a 6th jar, she discovered a few seashells in her pocket. What are possible values for the number of seashells in each of the 6 jars and the number of seashells discovered in her pocket, such that there are no seashells left over?

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Name: date: DUKE HOMEWORK | SHOW YOUR WORK (1) what is 20% of 600 2) what is 35% of 50 3) what is 50% of 246 4) what is 75% of 225 5) what is 26% of 150 6 what is 8% of 45

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Valence Lineaux Entre:

Solve the problems.

A store owner who bought comforters for x dollars is marking them up 60%. Write two expressions that represent the selling price and show that they are equivalent.

Show your work.

To mark something up means to increase the price.

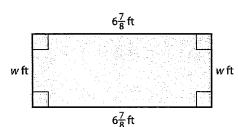
How do you find

the perimeter of

a rectangle?

Solution: _

A rug is $6\frac{7}{8}$ feet long and w feet wide. Which expression does NOT represent the perimeter of the rug in feet? Circle the correct answer.



- $\mathbf{A} \quad 2\left(6\frac{7}{8}+w\right)$
- **B** $2w + 13\frac{6}{8}$
- **C** $2(6\frac{7}{8}) + w$ **D** $6\frac{7}{8} + w + 6\frac{7}{8} + w$
- Which of the following expressions are equivalent to 4x - 8? Select all that apply.



B
$$(2x-4)+(2x-4)$$

C
$$x+x+x+x+2+2+2+2$$

D
$$4(x-2)$$

Jesse chose A as his answer. How did he get that answer?

What makes two expressions equivalent?



Solve.

	For each expression, select <i>Yes</i> or <i>No</i> to indicate whether the expression could be used to represent a 30% discount. Let x represent the original amount. a. $x - 0.7$ Yes No b. $0.3(x - 1)$ Yes No c. $0.7x$ Yes No d. $x - (0.3x)$ Yes No	What does a discount do to the original price?
5	Six bakers use a total of $12x - 3.6$ pounds of flour each hour. If each baker uses the same amount of flour, find an expression for the number of pounds each baker uses in an hour. Then write an expression equivalent to $12x - 3.6$ to represent the total flour used in an hour. Show your work.	Is the fact that they use the same amount important?
· · · · · · · · · · · · · · · · · · ·	Solution:	
6	Alice is paying her bill at a restaurant. The tax on the cost of her meal is 5%. She decides to leave a tip of 20% of the cost of the meal plus the tax. Write an expression for her total bill if the cost of her meal is <i>m</i> dollars. Write your answer in simplified form. Show your work.	How can you write a percent as a decimal?
	Solution:	

Name:

Score:

14

Exponential Rules

Use laws of exponents to rewrite each expression as single positive exponent:

1)
$$((-4)^5)^8 \div ((-4)^7)^3$$

$$2) \ \frac{19^{-7} \times 19^{-5}}{19^{-6}}$$

3)
$$(8^3)^{-5} \times (8^5)^4$$

4)
$$\frac{8^{-4} \times 8^{-2}}{8^2}$$

5)
$$((-12)^8)^4 \times ((-12)^9)^{-3}$$

6)
$$(13^6)^2 \div (13^3)^2$$

7)
$$(17^6)^5 \times (17^4)^{-3} \times 17^{-8}$$

8)
$$((-17)^8)^4 \div ((-17)^4)^5$$

9)
$$\frac{(-3)^7 \times (-3)^5}{(-3)^{-2}}$$

10)
$$(2^8)^3 \div (2^6)^3$$

11)
$$\frac{(-4)^{-8}}{(-4)^6 \times (-4)^{-7}}$$

12)
$$11^9 \times (11^4)^6 \times (11^7)^{-3}$$

13)
$$2^6 \times 2^9 \times (2^3)^{-4}$$

14)
$$(-19)^9 \div ((-19)^2)^2$$

15)
$$\frac{9^{-7}}{9^4 \times 9^{-10}}$$

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