Teacher: Math Applications Year: 2017-2018
Course: Math Applications Month: All Month

Month: All Months

Basic Math Skills Workshop

Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
How do you use math skills on a daily basis?	Writing and Reading Numbers	-	Place value	Chapter Test	Same as Content Skills	Textbook "Mathematics for Business and Personal	
	Rounding Numbers	To Round Whole numbers	Rounding			Finance"	
	Comparing Numbers Adding Decimals	To Round Dollars and Cents to the nearest Cent	Decimals				
	Subtracting Decimals	To Compare Whole numbers to See Which one is Greater	Whole numbers				
	Multiplying Decimals	To Compare Decimals to See Which One is Greater	Aligning decimals				
	Dividing Decimals	To Add Decimals with the Same number of Decimal Places	Mixed number				
	Multiplying Fractions	To Add Decimals with a Different number of Decimal Places	Improper fraction				
	Dividing Fractions	To Add Amounts of Money	Common denominator				
	Adding Fractions	To Subtract Decimals With the Same number of Decimal Places	Mixed fractions				
	Subtracting Fractions	To Subtract Decimals With a Different number of Decimal Places	Percentage				
	Fraction to Decimal, Decimal to Percent	To Subtract Amounts of money	Average{Mean}				
	Finding a Percentage	To Multiply Decimals	Elapsed Time				

Average{Mean}	To multiply amounts of Money	Unit of measure
Elapsed Time	To Divide decimals	Rounding
Units of Measurement	To Divide and Amount of money by a Whole Number	Word problems
Problem-Solving Strategy: Using	To multiply Fractions	
Problem the Four-Step Method	To Multiply Fractions and Whole Numbers	
Problem Solving Strategy: Identifying Information	To Simplify Fractions	
Problem-Solving Strategy: Multiple Operations	To Multiply mixed numbers	
	To Divide Fractions	
	To Add Fractions with a common Denominator	
	To Find the Least Common Denominator	
	To Subtract fractions with a Common Denominator	
	To Rename a Fraction as a Decimal	
	To Write a Decimal as a Percent	
	To Find the percentage of a Number	
	To Find the Average or Mean of a Group of Numbers	

To Find Elapsed Time

To Convert From one unit of Measure to Another

To estimate an Answer by Rounding

To Solve Problems using the Fourstep method

To Solve Word problems That may provide More Information Than is Needed to Solve the Problem

To Identify Word Problems for Which Additional Information is needed and Thus Cannot be Solved

To Solve problems That Require several Operations

B assic Math Skills Workshop

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### **Gross Income**

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Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
How do I calculate straight-		Calculate straight-time pay	hourly rate	Test on 1.11.4			
time, overtime, total lpay		Calculate straight-time, overtime	straight-time pay				
and commission?		and total pay					
		Calcuate total hours on a weekly	gross income	Lessons 1.51.7			
		time card					
		Compute the total play on a	overtime pay				
		piecework basis					
		Determine the salary per pay period	time and a half				
		Calculate the straight commission	double time				
		and determine the gross pay					
		Compute the total graduated	weekly time card				
		commission					
		Calculate the net pay per pay period	piecework				
			salary				
			commission				
			commission rate				
			straight				
			commission				
			graduated				
			commission				
Net Income							

Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
How do I find deducions		Determine the amount withheld for	federal income tax	Test on 2.12.3			
from a paycheck to		federal income tax					
determine net income?			withholding	Test on 2.42.6			
			allowance				
			exemption				
		Compute state taxes on a straight percent basis	Social Security				
		Determine the state tax on a graduated tax basis	Medicare				
		Compute the amount withheld for	group insurance				
		Social Security and Medicare taxes					
		Calculate the deduction for group insurance	net pay				

#### Recordkeeping

Recordkeeping							
Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
How can I track expenditures		Compute the average monthly	Recordkeeping	Test on 3.13.3			
and how do I create and		expenditures					
maintain a budget?		Use records of past expenditures to prepare a monthly budget sheet	expenditures				
		Compare the amount budgeted to actual expenditures	budget sheet				
		•	living expenses				
			budget				
			fixed expenses				
			annual expenses				
			expense summary				
			emergency fund				
Checking Accounts							
Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
What are the benefits of		Compute the total checking account	deposit	Test on 4.14.3			
having a checking account?		deposit		Took on 4.4.4.6			
		Write a check	automated teller machine	Test on 4.44.6			
		Calculate the balance in a check	personal				
		register	identification				
			number				
		Calculate the present balance on a	checking account				
		checking account bank statement					
		Reconcile a check register with a	check				
		bank account statement					
		Compute on line banking charges	check register				
		and update the check register	balance				
			bank statement				
			service charge				
Cardinas Assessats			reconcile				
Savings Accounts							
Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
What are your financial		Compute a savings account deposit	savings account	test on 5.1-5.4			
goals?		slip and compute the total deposit	<b>5</b>				
How can saving help you		Fill out a savings account withdrawal	depositd	Test on 5.55.8			
meet them?		slip	·				

Compute the new balance of a withdrawal savings account statement Calculate simple interest and the account statement amount Determine the compound interest interest and the amount Calculate the interest for daily principal compounding annual interest rate compound interest ordinary annuity

### **Managing Your Espenses**

Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
How do you know if you are		Compute the sales tax	sales tax	Test on 6.16.4			
getting a good deal when making a purchase?		Calculate the total purchase price	sales receipt	Test on 6.56.7			
		Determine the unit price	total purchase price				
		Find the best buy based on unit price	e unit pricing				
		Calculate an item's final price after using a coupon or receiving a rebate	coupons				
		Solve the dollar amount of the markdown	rfebates				
		Compute the sale price when the markdown rate is known	markdown markdown rate sale price				

# Charge accounts and Credit Cards

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Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
What are the reasons for		Calculate the new balance on a	credit card	Test on 7.17.3			
having a credit card?		charge account					
		Compute the finance charges by	charge account				
		using the unpaid-balance method					
		Compute the finance charge based	account statement				
		on the average-daily-balance					
		method					
			finance charge				
			unpaid-balance				
			method				
			average-daily-				
			balance method				
Loans							
			.,				
Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
What are the reasons		Compute the maturity value and	single-payment	Test on 8.18.3			
someone might take out a		intgerest rate of a single-payment	loan				
large loan?		loan					
		Calculate the down payment and the	e promissory note	Test 8.48.6			
		amount financed on an installment					
		loan					
		Calculate the monthly payment,	maturity value				
		total amount repaid, and finance					
		charge on an installment loan					
		Calculate the payment to interest,	term				
		payment to principal, and the new					
		balance					
		Compute the final payment when	ordinary interest				
		paying off an installment loan					
		Determine the annual percentage	exact interest				
		rate of a loan using a table and a					
		formula					
			installment loan				
			down payment				
			amount financed				

annual percentage

rate

# repaymschedule final payment

### Vehicle Transportation

Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
What factors would		Compute the sticker price of a new	sticker price	Test on 9.19.4			
influence your decision wh	en	vehicle					
purchasing a vehicle?		Calculate the dealer's cost of a new vehicle	base price	Test on 9.59.7			
		Figure out the average retail price or wholesale price of a used vehicle	options				
		Use tables to compute the annual premium for vehicle insurance	destination charge				
		Compute the total cost per mile of operating and maintaining a vehicle	dealer's cost				
		Calculate the total cost of leasing a vehicle	liability insurance				
		Calculate the cost to rent a vehicle	comprehensive				
		andf the cost per mile to drive a rented vehicle	insurance				
			deductible clause				
			annual premium				
			variable costs				
			fixed costs				
			depreciation				
Housing Costs			lease				

### **Housing Costs**

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Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
How will you decide whethe	er	Compute the mortgage loan amount	mortgage loan	Test on 10.1			
to rent or to purchase a				10.3			
home?		determine the monthly payment	closing costs	Test on 10.4			
		using a table or fromula, the total		10.6			
		amount paid, and the total interest					
		charged					
		Calculate the total closing costs	real estate taxes	Test on 10.7			
				10.9			
		Compute the allocation of the	market value				
		monthly payment to princiopal					
		andtghe interest and the new					
		principal					
		• •					

Calculate the assessed value and real tax rate estate taxes for a home Determine the amount of coverage homeowners for homeinsurance insurance Calculate the annual homeowners personal liability insurance premium coverage Compare the total costs of renting medical coverfage with the costs of owning a home replacement value premium security depositd

#### Insurance

Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
When do people use		Compute health insurance premiums	health insurance	Test on 11.1			
insurance?				11.3			
		Calculate the amount a patient pays	deductible co-				
		for health care	payment				
		Use tables to compute the annual	life insurance				
		premium for term life insurance					
			beneficiary				
			cash value				