| Teacher: Math Applications Course: Math Applications | Year: 2017-2018 <br> 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 | Place value | Chapter Test | Same as Content Skills | Textbook <br> "Mathematics for <br> 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: <br> 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 Four-
step 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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|  | 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 |
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| Dividing Fractions | To Add Amounts of Money | Common denominator |
| Adding Fractions | To Subtract Decimals With the Same number of Decimal Places | Mixed fractions |
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| Fraction to Decimal, Decimal to Percent | To Subtract Amounts of money | Average\{Mean\} |
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| Problem-Solving Strategy: Multiple Operations | To Multiply mixed numbers |  |
|  | To Divide Fractions <br> To Add Fractions with a common Denominator |  |

To Find the Least Common
Denominator

To Subtract fractions with a
Common Denominator

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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

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How do I calculate straighttime, overtime, total lpay and commission? |  | Calculate straight-time pay Calculate straight-time, overtime and total pay | hourly rate straight-time pay | Test on 1.1--1.4 |  |  |  |
|  |  | Calcuate total hours on a weekly time card | gross income | Lessons 1.5--1.7 |  |  |  |
|  |  | Compute the total play on a piecework basis | overtime pay |  |  |  |  |
|  |  | Determine the salary per pay period | time and a half |  |  |  |  |
|  |  | Calculate the straight commission and determine the gross pay | double time |  |  |  |  |
|  |  | Compute the total graduated commission | weekly time card |  |  |  |  |
|  |  | 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 from a paycheck to |  | Determine the amount withheld for federal income tax | federal income tax | Test on 2.1--2.3 |  |  |  |
| determine net income? |  |  | withholding | Test on 2.4--2.6 |  |  |  |
|  |  |  | 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 |  |  |  |  |




Charge accounts and Credit



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 premium for term life insurance | life insurance |  |  |  |  |
|  |  |  | beneficiary cash value |  |  |  |  |

