


| Theme: Numbers and Numeration (M-08-011) CODE A17 | Theme: Numbers and Numeration (M-08-016) CODE A21 |
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| Lesson Titte: Adding and Subtracting Integers and Decimals | Lesson Title: Review the Concept and Vocabulary of Factors and |
| Add or subtract the numbers: <br> 1. $215.98+125.2$ <br> 2. $1.5-0.9$ <br> 3. $2.25-1.81$ | List the factors of 16. <br> 3 minutes |
| Theme: $\quad$ Numbers and Numeration (M-08-012) CODE A18 | Theme: Numbers and Numeration (M-08-017) CODE A22 |
| Lesson Titte: Adding and Subtracting Fractions with Integers and Decimals | Lesson Title: Review Prime and Composite Numbers |
| Evaluate the following: $4.5 \times 4 \div 0.25$ <br> Hint: Convert the decimal numbers into fraction form | What is a prime number? |
| 2 minutes | 1 minute |
| Theme: Numbers and Numeration (M-08-015) CODE A19 | Theme: Numbers and Numeration (M-08-017) CODE A23 |
| Lesson Title: Story Problems with Operations on Different Number | Lesson Title: Review Prime and Composite Numbers |
| Solve the following story problem: <br> David had $3 / 4$ cup of rice, and his sister gave him $3 / 4$ cup more. <br> How much rice did he have in total? | What is a composite number? <br> 1 minute |
| Theme: $\quad$ Numbers and Numeration (M-08-016) CODE A20 | Theme: Numbers and Numeration (M-08-018) CODE A24 |
| Lesson Title: Review the Concept and Vocabulary of Factors and | Lesson Title: Review Prime and Composite Numbers |
| What is a factor of a number? $11 / 2 \text { minutes }$ | Identify prime and composite numbers between 5 and 15 . <br> 3 minutes |


| Theme | Numbers and Numeration (M-08-018) | CODE A25 | Theme: $\quad$ Numbers and Numeration (M-08-021) | CODE A29 |
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| Lesson Title: Prime Factors of Whole Numbers |  |  | Lesson Title: Index Notation |  |
| What are prime factors? |  | $11 / 2$ minutes | Evaluate the following: <br> 1. $6^{3}$ <br> 2. $8^{1}$ <br> 1 minute |  |
| Theme | Numbers and Numeration (M-087-018) | CODE A26 | Theme: $\quad$ Numbers and Numeration (M-08-022) | CODE A30 |
| Lesson Title: Prime Factors of Whole Numbers |  |  | Lesson Title: Index Law 1: Multiplication of Indices |  |
| Identify the prime factors of 20.3 minutes |  |  | Simplify the following. Give the answer in index notation. $2^{8} \times 2^{5}$ <br> 2 minutes |  |
| Theme | Numbers and Numeration (M-08-019) | CODE A27 | Theme: $\quad$ Numbers and Numeration (M-08-023) | CODE A31 |
| Lesson Title: Calculating the Least Common Multiple (LCM) |  |  | Lesson Title: Index Law 2: Division of Indices |  |
| Find the lowest common multiple (LCM) of 12 and 20. |  |  | Simplify the following:$3^{5} \div 3^{3}$ |  |
| Theme: $\quad$ Numbers and Numeration (M-08-021) CODE A28 |  |  | Theme: $\quad$ Numbers and Numeration (M-08-025) CODE A32 |  |
| Lesso | Title: Index Notation |  | Lesson Title: Index Law 4: Powers of Indices |  |
| Identify the base and the index in this number:$3^{2}$ |  |  | Simplify and leave the answer in index notation.$\left(2^{2}\right)^{3}$ |  |



| Theme: Numbers and Numeration (M-08-033) CODE A41 | Theme: Numbers and Numeration (M-08-035) CODE A45 |
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| Lesson Title: Percentage increase | Lesson Title: Applying Percentage Increase and decrease |
| What is the formula for finding the percentage increase or decrease? | Solve the following word problems: <br> 1. A messenger received a salary of Le 68,500 . She is promoted to a higher salary level and her salary increases by $14 \%$. Calculate her new salary. <br> 2. The number 600 is decreased by $35 \%$. Find the new number. |
| Theme: Numbers and Numeration (M-08-033) CODE A42 | Theme: Everyday Arithmetic (M-08-036) CODE A46 |
| Lesson Title: Percentage increase | Lesson Title: Introduction to Profit and Loss |
| Solve the word problem: <br> A bag of rice cost le 150,000 and was increased to Le 210,000. Calculate the percentage increase. | Differentiate between a profit and a loss. |
| 2 minutes | $11 / 2$ minutes |
| Theme: Numbers and Numeration (M-08-033) CODE A43 | Theme: Everyday Arithmetic (M-08-036) CODE A47 |
| Lesson Title: Percentage increase | Lesson Title: Introduction to Profit and Loss |
| Solve the word problem: <br> A man sells cassava in the market. One week he sold 200 bags and the next week he sold 240 bags. <br> Calculate the percentage increase. | State the formulae for percent profit and percent loss. <br> $11 / 2$ minutes |
| Theme: Numbers and Numeration (M-08-035) CODE A44 | Theme: Everyday Arithmetic (M-08-037) CODE A48 |
| Lesson Title: Applying Percentage Increase and decrease | Lesson Title: Calculating Profit |
| You are given a quantity K and given the percentage increase or decrease M on it. <br> Explain what steps you need to calculate the new quantity. | Solve the following word problem: <br> A watermelon was bought for Le 1.00 and sold at Le 1.70. <br> Calculate the percent profit. <br> 3 minutes |



| Theme: Everyday Arithmetic (M-08-045) CODE A57 | Theme: Everyday Arithmetic (M-07-047) CODE A61 |
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| Lesson Titte: Making Comparisons with Unit Price | Lesson Title: Identifying Direct Proportions |
| Michael sells beans. <br> He sells 3 kg of beans for Le $42,000.00$, and 5 kg of beans for Le 65,000.00. <br> Which option has the better unit price? | $y$ and $x$ are directly proportional. <br> When $x=10, y=4$. <br> Find the value of the constant of proportionality, k . |
| Theme: Everyday Arithmetic (M-08-046) CODE A58 | Theme: Everyday Arithmetic (M-08-048) CODE A62 |
| Lesson Title: Direct Proportion | Lesson Title: Solving Direct Proportions |
| Define the term proportion. <br> What is direct proportion? | Find the value of $b$ that completes the direct proportion: $\frac{1}{b}=\frac{7}{21}$ <br> 3 minutes |
| Theme: Everyday Arithmetic (M-08-046) CODE A59 | Theme: Everyday Arithmetic (M-08-050) CODE A63 |
| Lesson Title: Direct Proportion | Lesson Title: Direct Proportion Story Problems |
| Consider the ratios $3: 12$ and $5: 20$. <br> a. Write the ratios as fractions. <br> b. What are the extremes and the means? <br> c. Is this a direct proportion? | Solve the following word problem: <br> A woman sold 50 oranges in 4 hours. If she continues selling them at the same rate, how many can she sell in 6 hours? |
| 3 minutes | 3 minutes |
| Theme: Everyday Arithmetic (M-08-047) CODE A60 | Theme: Everyday Arithmetic (M-08-051) CODE A64 |
| Lesson Title: Identifying Direct Proportions | Lesson Title: Indirect Proportion |
| Write down the equation for direct proportion using the letters $\mathrm{x}, \mathrm{y}$ and k . | Define an indirect proportion. |
|  | $11 / 2$ minutes |

Lesson Title: Indirect Proportion

Write down the equation for indirect proportion or inverse proportions using the letters $\mathrm{x}, \mathrm{y}$ and k .

Theme: Everyday Arithmetic (M-08-051) CODE A66
Lesson Title: Indirect Proportion

Determine whether the following represents an indirect proportion or not.
$1: 6 \propto 30: 5$

