



Lesson Practice B Equivalent Fractions And Mixed Numbers

Name: _____

Date: _____



Equivalent Fractions (B)



Section A Fill in the blanks to create equivalent fractions.

$\frac{1}{2} = \frac{6}{\square}$	$\frac{1}{3} = \frac{7}{\square}$	$\frac{1}{6} = \frac{9}{\square}$	$\frac{1}{7} = \frac{\square}{14}$
$\frac{1}{9} = \frac{5}{\square}$	$\frac{1}{8} = \frac{4}{\square}$	$\frac{1}{12} = \frac{3}{\square}$	$\frac{1}{8} = \frac{\square}{32}$
$\frac{1}{5} = \frac{9}{\square}$	$\frac{1}{11} = \frac{4}{\square}$	$\frac{1}{6} = \frac{12}{\square}$	$\frac{1}{7} = \frac{\square}{49}$
$\frac{1}{8} = \frac{3}{\square}$	$\frac{1}{6} = \frac{7}{\square}$	$\frac{1}{12} = \frac{10}{\square}$	$\frac{1}{9} = \frac{\square}{63}$

Section B Fill in the blanks to create equivalent fractions.

$\frac{2}{3} = \frac{4}{\square}$	$\frac{4}{5} = \frac{12}{\square}$	$\frac{3}{4} = \frac{21}{\square}$	$\frac{2}{5} = \frac{10}{\square}$
$\frac{2}{9} = \frac{16}{\square}$	$\frac{9}{10} = \frac{18}{\square}$	$\frac{4}{7} = \frac{16}{\square}$	$\frac{3}{11} = \frac{27}{\square}$
$\frac{7}{8} = \frac{\square}{56}$	$\frac{2}{3} = \frac{\square}{36}$	$\frac{5}{6} = \frac{\square}{48}$	$\frac{3}{7} = \frac{\square}{84}$
$\frac{1}{20} = \frac{\square}{160}$	$\frac{3}{50} = \frac{\square}{150}$	$\frac{11}{30} = \frac{\square}{120}$	$\frac{9}{25} = \frac{\square}{100}$

Section C Fill in the blanks to create equivalent fractions.

$\frac{2}{3} = \frac{\square}{9} = \frac{12}{\square} = \frac{\square}{21}$	$\frac{3}{5} = \frac{\square}{25} = \frac{36}{\square} = \frac{24}{\square}$
$\frac{6}{7} = \frac{\square}{14} = \frac{36}{\square} = \frac{\square}{56}$	$\frac{11}{20} = \frac{\square}{40} = \frac{66}{\square} = \frac{132}{\square}$

LESSON PRACTICE B: EQUIVALENT FRACTIONS AND MIXED NUMBERS

UNDERSTANDING EQUIVALENT FRACTIONS AND MIXED NUMBERS IS AN ESSENTIAL PART OF MASTERING BASIC ARITHMETIC AND FRACTION OPERATIONS. THIS LESSON AIMS TO PROVIDE COMPREHENSIVE INSIGHTS INTO THESE CONCEPTS, ENSURING THAT STUDENTS CAN IDENTIFY, CREATE, AND UTILIZE EQUIVALENT FRACTIONS AND MIXED NUMBERS EFFECTIVELY. THROUGH PRACTICAL EXERCISES, WE WILL EXPLORE THE DEFINITIONS, METHODS FOR FINDING EQUIVALENTS, AND THE CONNECTIONS BETWEEN FRACTIONS AND WHOLE NUMBERS.

UNDERSTANDING FRACTIONS

FRACTIONS REPRESENT A PART OF A WHOLE AND ARE EXPRESSED AS A RATIO OF TWO INTEGERS. THE NUMBER ABOVE THE LINE IS THE NUMERATOR, WHILE THE NUMBER BELOW THE LINE IS THE DENOMINATOR. FOR EXAMPLE, IN THE FRACTION $\frac{3}{4}$, 3 IS THE NUMERATOR, AND 4 IS THE DENOMINATOR.

TYPES OF FRACTIONS

1. PROPER FRACTIONS: THESE ARE FRACTIONS WHERE THE NUMERATOR IS LESS THAN THE DENOMINATOR (E.G., $\frac{2}{5}$).
2. IMPROPER FRACTIONS: FRACTIONS WHERE THE NUMERATOR IS GREATER THAN OR EQUAL TO THE DENOMINATOR (E.G., $\frac{5}{4}$).
3. MIXED NUMBERS: THESE CONSIST OF A WHOLE NUMBER AND A PROPER FRACTION (E.G., $1\frac{1}{4}$).
4. EQUIVALENT FRACTIONS: DIFFERENT FRACTIONS THAT REPRESENT THE SAME VALUE (E.G., $\frac{1}{2}$ AND $\frac{2}{4}$).

EQUIVALENT FRACTIONS

EQUIVALENT FRACTIONS ARISE WHEN TWO OR MORE FRACTIONS REPRESENT THE SAME QUANTITY. UNDERSTANDING HOW TO CREATE AND IDENTIFY EQUIVALENT FRACTIONS IS CRUCIAL FOR PERFORMING OPERATIONS WITH FRACTIONS.

FINDING EQUIVALENT FRACTIONS

TO FIND EQUIVALENT FRACTIONS, YOU CAN USE TWO PRIMARY METHODS:

1. MULTIPLICATION: MULTIPLY BOTH THE NUMERATOR AND THE DENOMINATOR OF THE FRACTION BY THE SAME NON-ZERO INTEGER.
 - EXAMPLE: $\frac{1}{3}$
 - MULTIPLY BY 2: $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$
 - MULTIPLY BY 3: $\frac{1 \times 3}{3 \times 3} = \frac{3}{9}$
2. DIVISION: DIVIDE BOTH THE NUMERATOR AND THE DENOMINATOR BY THE SAME NON-ZERO INTEGER.
 - EXAMPLE: $\frac{4}{8}$
 - DIVIDE BY 4: $\frac{4 \div 4}{8 \div 4} = \frac{1}{2}$

VISUAL REPRESENTATION

VISUAL AIDS CAN ALSO BE HELPFUL IN UNDERSTANDING EQUIVALENT FRACTIONS. BY DIVIDING A SHAPE (LIKE A PIE OR A RECTANGLE) INTO EQUAL PARTS, STUDENTS CAN VISUALLY SEE HOW DIFFERENT FRACTIONS CAN REPRESENT THE SAME PORTION OF THE WHOLE.

PRACTICE PROBLEMS

1. FIND TWO EQUIVALENT FRACTIONS FOR $\frac{2}{5}$.
2. DETERMINE IF $\frac{6}{9}$ IS EQUIVALENT TO $\frac{2}{3}$.
3. CREATE THREE EQUIVALENT FRACTIONS FOR $\frac{3}{7}$.

ANSWERS:

1. $\frac{4}{10}$, $\frac{6}{15}$
2. YES, $\frac{6 \div 3}{9 \div 3} = \frac{2}{3}$
3. $\frac{6}{14}$, $\frac{9}{21}$, $\frac{12}{28}$

MIXED NUMBERS

MIXED NUMBERS COMBINE WHOLE NUMBERS AND FRACTIONS, WHICH CAN SOMETIMES COMPLICATE ARITHMETIC OPERATIONS. UNDERSTANDING HOW TO CONVERT BETWEEN MIXED NUMBERS AND IMPROPER FRACTIONS IS KEY TO SOLVING PROBLEMS INVOLVING BOTH FORMS.

CONVERTING IMPROPER FRACTIONS TO MIXED NUMBERS

TO CONVERT AN IMPROPER FRACTION TO A MIXED NUMBER:

1. DIVIDE THE NUMERATOR BY THE DENOMINATOR.
2. THE QUOTIENT BECOMES THE WHOLE NUMBER PART.
3. THE REMAINDER BECOMES THE NUMERATOR OF THE FRACTION PART, WITH THE ORIGINAL DENOMINATOR REMAINING THE SAME.

EXAMPLE

CONVERT $\left(\frac{9}{4} \right)$ TO A MIXED NUMBER:

1. $(9 \div 4 = 2)$ REMAINDER (1)
2. So, $\left(\frac{9}{4} = 2 \frac{1}{4} \right)$

CONVERTING MIXED NUMBERS TO IMPROPER FRACTIONS

TO CONVERT A MIXED NUMBER BACK TO AN IMPROPER FRACTION:

1. MULTIPLY THE WHOLE NUMBER BY THE DENOMINATOR.
2. ADD THE NUMERATOR TO THIS PRODUCT.
3. PLACE THIS RESULT OVER THE ORIGINAL DENOMINATOR.

EXAMPLE

CONVERT $\left(3 \frac{2}{5} \right)$ TO AN IMPROPER FRACTION:

1. $(3 \times 5 = 15)$
2. $(15 + 2 = 17)$
3. So, $\left(3 \frac{2}{5} = \frac{17}{5} \right)$

PRACTICE PROBLEMS

1. CONVERT $\left(\frac{11}{3} \right)$ TO A MIXED NUMBER.
2. CONVERT $\left(4 \frac{3}{8} \right)$ TO AN IMPROPER FRACTION.
3. IDENTIFY THE MIXED NUMBER EQUIVALENT OF $\left(\frac{22}{5} \right)$.

ANSWERS:

1. $\left(3 \frac{2}{3} \right)$
2. $\left(\frac{35}{8} \right)$
3. $\left(4 \frac{2}{5} \right)$

APPLICATION OF EQUIVALENT FRACTIONS AND MIXED NUMBERS

UNDERSTANDING EQUIVALENT FRACTIONS AND MIXED NUMBERS IS ESSENTIAL IN VARIOUS REAL-LIFE CONTEXTS, INCLUDING COOKING, BUDGETING, AND CONSTRUCTION, WHERE PRECISE MEASUREMENTS ARE CRUCIAL.

REAL-WORLD EXAMPLES

1. COOKING: RECIPES OFTEN REQUIRE FRACTIONAL MEASUREMENTS, AND UNDERSTANDING EQUIVALENTS HELPS IN ADJUSTING

SERVING SIZES.

2. CONSTRUCTION: MEASUREMENTS FOR MATERIALS OFTEN USE FRACTIONS; KNOWING HOW TO CONVERT AND COMPARE THESE FRACTIONS ENSURES ACCURACY.

3. BUDGETING: IN FINANCE, UNDERSTANDING PERCENTAGES AS FRACTIONS CAN HELP IN BETTER MONEY MANAGEMENT.

STRATEGIES FOR MASTERY

1. PRACTICE REGULARLY: CONSISTENT PRACTICE WITH BOTH EQUIVALENT FRACTIONS AND MIXED NUMBERS WILL REINFORCE UNDERSTANDING.

2. USE VISUALS: DRAWING OR USING FRACTION STRIPS CAN HELP VISUALIZE EQUIVALENT FRACTIONS.

3. ENGAGE IN GROUP ACTIVITIES: WORKING WITH PEERS CAN FACILITATE COLLABORATIVE LEARNING AND PROBLEM-SOLVING.

CONCLUSION

IN CONCLUSION, MASTERING EQUIVALENT FRACTIONS AND MIXED NUMBERS IS VITAL FOR STUDENTS TO BUILD A STRONG FOUNDATION IN MATHEMATICS. THROUGH UNDERSTANDING THE PRINCIPLES OF EQUIVALENCE, CONVERSION, AND APPLICATION, LEARNERS CAN ENHANCE THEIR MATHEMATICAL SKILLS AND GAIN CONFIDENCE IN HANDLING FRACTIONS IN DAILY LIFE AND ACADEMIC SETTINGS. REGULAR PRACTICE, THE USE OF VISUAL AIDS, AND REAL-WORLD APPLICATIONS WILL SOLIDIFY THESE CONCEPTS, MAKING THEM READILY APPLICABLE IN VARIOUS SITUATIONS.

FREQUENTLY ASKED QUESTIONS

WHAT ARE EQUIVALENT FRACTIONS AND HOW CAN THEY BE IDENTIFIED?

EQUIVALENT FRACTIONS ARE DIFFERENT FRACTIONS THAT REPRESENT THE SAME VALUE OR PROPORTION OF A WHOLE. THEY CAN BE IDENTIFIED BY MULTIPLYING OR DIVIDING THE NUMERATOR AND DENOMINATOR OF A FRACTION BY THE SAME NON-ZERO NUMBER.

HOW DO YOU CONVERT A MIXED NUMBER INTO AN IMPROPER FRACTION?

TO CONVERT A MIXED NUMBER INTO AN IMPROPER FRACTION, MULTIPLY THE WHOLE NUMBER BY THE DENOMINATOR, ADD THE NUMERATOR, AND PLACE THE RESULT OVER THE ORIGINAL DENOMINATOR. FOR EXAMPLE, FOR THE MIXED NUMBER $3\frac{1}{4}$, IT BECOMES $(3 \times 4 + 1)/4 = 13/4$.

CAN YOU GIVE AN EXAMPLE OF TWO EQUIVALENT FRACTIONS?

YES! THE FRACTIONS $1/2$ AND $2/4$ ARE EQUIVALENT BECAUSE THEY REPRESENT THE SAME PORTION OF A WHOLE; IF YOU MULTIPLY 1 BY 2 AND 2 BY 2, YOU GET $2/4$.

WHAT IS THE SIGNIFICANCE OF LEARNING ABOUT EQUIVALENT FRACTIONS IN MATHEMATICS?

UNDERSTANDING EQUIVALENT FRACTIONS IS CRUCIAL BECAUSE IT HELPS IN SIMPLIFYING FRACTIONS, PERFORMING OPERATIONS WITH FRACTIONS, AND COMPARING DIFFERENT FRACTIONS, WHICH ARE FOUNDATIONAL SKILLS IN MATHEMATICS.

HOW CAN VISUAL AIDS HELP IN TEACHING EQUIVALENT FRACTIONS AND MIXED NUMBERS?

VISUAL AIDS LIKE FRACTION BARS, PIE CHARTS, OR NUMBER LINES CAN HELP STUDENTS GRASP THE CONCEPT OF EQUIVALENT FRACTIONS AND MIXED NUMBERS BY PROVIDING A TANGIBLE REPRESENTATION OF HOW DIFFERENT FRACTIONS CAN REPRESENT THE SAME QUANTITY.

WHAT STRATEGIES CAN BE USED TO PRACTICE IDENTIFYING EQUIVALENT FRACTIONS?

STRATEGIES INCLUDE USING FRACTION STRIPS, CREATING A FRACTION EQUIVALENCY CHART, ENGAGING IN GAMES THAT INVOLVE

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