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Introduction

Each book in the *Power Practice*™ series contains dozens of ready-to-use activity pages to provide students with skill practice. The fun activities can be used to supplement and enhance what you are already teaching in your classroom. Give an activity page to students as independent class work, or send the pages home as homework to reinforce skills taught in class. An answer key is included at the end of each book for verification of student responses.

Pre-Algebra provides activities that will directly assist students in practicing basic skills and concepts. The structure of the book enhances student learning and enables them to meet new challenges with confidence. Students will receive reinforcement in the following skills:

- determining divisibility
- finding common factors and multiples
- terminating and repeating decimals
- understanding integers and absolute value
- multiplying and dividing fractions
- finding and using percents
- using the order of operations
- finding the value of a given variable
- identifying and solving a monomial, binomial, or trinomial

Use these ready-to-go activities to “recharge” skill review and give students the power to succeed.

Number Chat

Set: A collection of objects.

Whole Numbers: The set of numbers that can be used to count, starting with 0.

Fraction: Part of a whole number.

Decimal: A number with one or more digits to the right of the decimal number.

Digit: A single number. There are 10 digits: 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9.

Write *whole number*, *fraction*, or *decimal* to indicate which would best represent the value.

- 1 The percent on a test _____
- 2 The number of students in the class _____
- 3 The part of the world that is made up of water _____
- 4 The cost to fill up a tank of gas _____
- 5 Half of an hour _____
- 6 The number of televisions in your house _____
- 7 The measurement in a recipe that is less than 1 full cup _____
- 8 The interest rate at a bank _____
- 9 The number of steps to get to school _____
- 10 The exact number of miles to the closest store _____
- 11 Baseball batting averages _____
- 12 Part of the pizza left after you eat your share _____

Naming Number Sets

Natural Numbers: The set of numbers that you use to count, starting with 1.

Integers: The set of all whole numbers, both positive and negative. $\{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$

Rational Numbers: The set of all integers plus all of the terminating or repeating decimals between the whole numbers.

Irrational Numbers: The set of all numbers that are not rational. If a number is not rational, then it must be irrational.

Write a number that fits the description.

- 1 I am an integer that is one less than 0. _____
- 2 I am a rational number that is between 3 and 4. _____
- 3 I am an integer that is between 0 and -5 . _____
- 4 I am a rational number that is one less than $\frac{1}{2}$. _____
- 5 I am both a rational number and a natural number that is between 58 and 60. _____
- 6 I am an integer that is 2 less than -3 . _____
- 7 I am a natural number that is 5 times greater than 2. _____

Write *natural number*, *integer*, *rational number*, or *irrational number* to indicate which would best represent the value.

- 8 I am a decimal that does not terminate or repeat. _____
- 9 I am a number that is 2.5 more than 0.5. _____
- 10 I am a number that is 3.2 less than -4 . _____
- 11 I am a number that is 4 times greater than 1.25. _____
- 12 I am a number that is the product of two rational numbers. _____

Math Operations

Sum: The answer to an addition problem.

Difference: The answer to a subtraction problem.

Product: The answer to a multiplication problem.

Quotient: The answer to a division problem.

Write an equation that illustrates the problem and solve it.

- 1 To find the area of a square, find the product of the length and the width. _____
- 2 To find the average daily pay, find the quotient of the weekly pay, \$350, and the number of days in a week. _____
- 3 To find the discount, find the difference between the regular price of \$30 and the discounted price of \$22. _____
- 4 Find the sum of all the baskets scored in the ball game. Only 10 players scored. The scores are 10, 20, 14, 13, 30, 12, 24, 4, 2, 3. _____
- 5 Find the sum and the difference of the numbers 50 and 25. _____
- 6 Find the product of the even integers in the set: {1, 2, 3, 4, 5, 6}. _____
- 7 To find the square of the number 6, take the product of the number multiplied by itself. _____
- 8 To find the remainder of 36 divided by 5, find the difference of 36 and the product of 5 and 7. _____

Vocabulary Practice

REVIEW

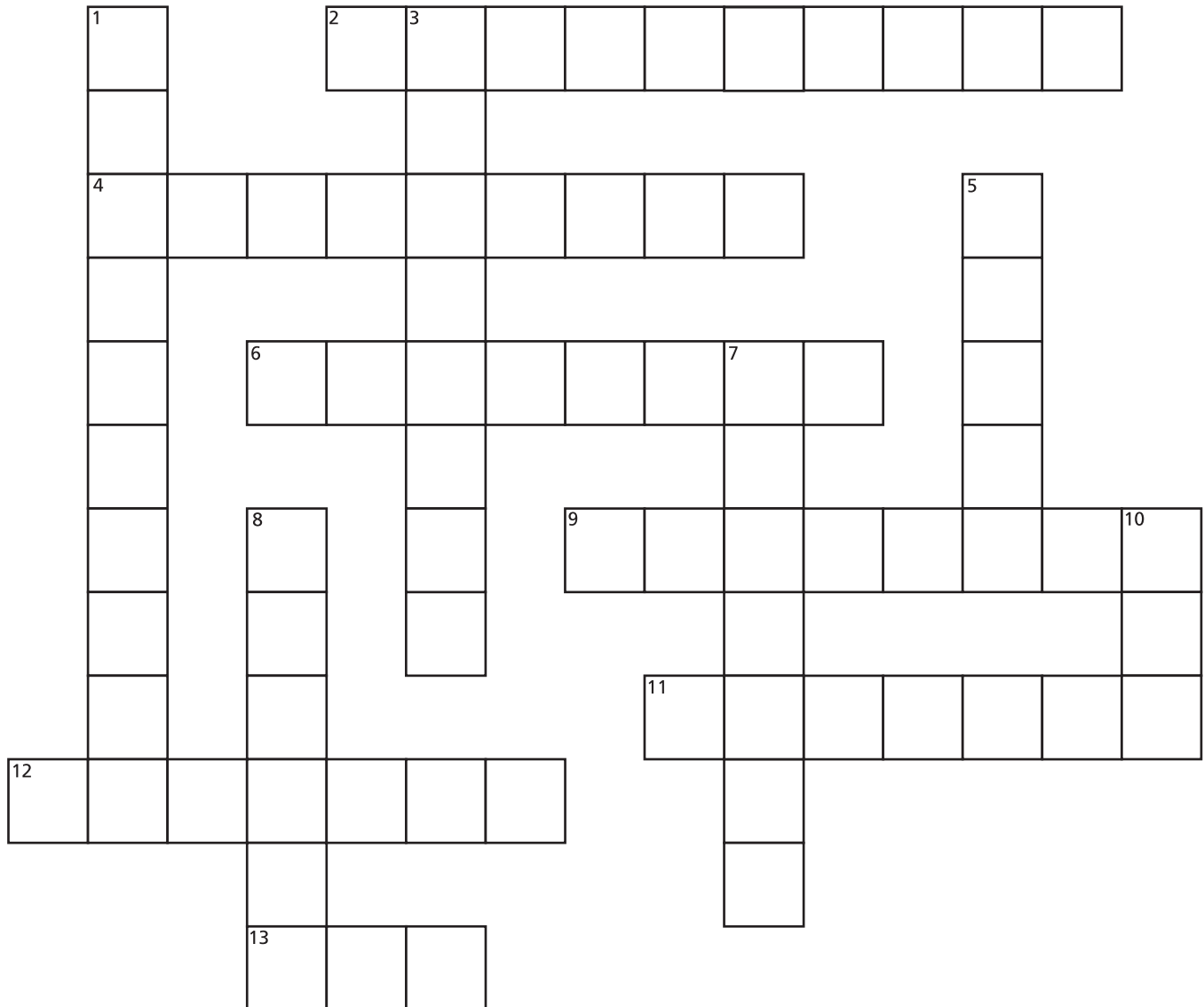
For each given definition or set of numbers, circle the best vocabulary word.

- 1 $\{ \dots, -3, -2, -1, 0, 1, 2, 3, \dots \}$
 Whole Naturals Integers Rationals Irrationals
- 2 $\{0, 1, 2, 3, \dots\}$
 Whole Naturals Integers Rationals Irrationals
- 3 $\{1, 2, 3, \dots\}$
 Whole Naturals Integers Rationals Irrationals
- 4 This is the set of all integers plus all of the terminating or repeating decimals between the whole numbers.
 Whole Naturals Integers Rationals Irrationals
- 5 A collection of objects
 Digits Fractions Set Sum
- 6 $\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$
 Whole Naturals Integers Rationals Digits
- 7 Part of a whole number
 Decimals Digits Fraction Difference
- 8 The answer to an addition problem
 Sum Difference Product Quotient Divisible
- 9 The answer to a multiplication problem
 Sum Difference Product Quotient Divisible
- 10 The answer to a subtraction problem
 Sum Difference Product Quotient Divisible
- 11 The answer to a division problem
 Sum Difference Product Quotient Divisible

Crossword

REVIEW

Use the clues to complete the puzzle.



Across

2. The set of all numbers that are not rational.
4. Part of a whole number.
6. The answer to a division problem.
9. This is the set: $\{ \dots, -3, -2, -1, 0, 1, 2, 3, \dots \}$
11. The answer to a multiplication problem.
12. A number with one or more digits to the right of the decimal point.
13. The answer to an addition problem.

Down

1. The answer to a subtraction problem.
3. The set of all integers plus all of the terminating or repeating decimals.
5. The set of numbers that can be used to count starting with 0.
7. The set of numbers that you use to count starting with 1.
8. Single numbers from 0 to 9.
10. A collection of objects.

Clue Words

Add	Subtract	Multiply	Divide
Tally Count up	Deduct Take away	Grow Magnified	Partition Breaking up

For each operation brainstorm additional clue words that are found in math word problems.

1 Add

2 Subtract

3 Multiply

4 Divide

Looking for Clues

Circle the clue words and write the operation below the word.

- 1 Mr. Fred needs to tally up his minutes to see if he has any more minutes to use on his phone card.
- 2 The sale price of the radio is \$20 less than the regular price.
- 3 The photo size was magnified by 3.
- 4 You expect the total sales for the video store to be 500 videos more than last year.
- 5 The wall needs to be partitioned into 4-foot sections and the number of 4-foot sections needs to be counted with the other three walls.
- 6 Rachel's mom is going to deduct her allowance from the cost of the sweater she wants.
- 7 Morgan is going to take 5 pieces of candy from the jar.
- 8 The kids needed an extra 20 minutes to shop at the mall.
- 9 The store clerk needs to count all of the money in her drawer except the money that was there when she started working.

Using Clue Words

Choose one of the following activities to complete in the space below.

- Using some of your own “clue words,” write some story problems of your own.
- Look in books, magazines, and newspapers to find some text that uses clue words. Cut and paste your examples or copy the sentences to the space below.