Table of Contents

How to Use This Book. 3
NCTM Standards. 4

Unit 1

How to Measure the Lengths of Objects 5
Practice Measuring to the Half, Quarter, Eighth, and Sixteenth of an Inch 6
Practice Measuring in Meters, Centimeters, and Millimeters 7
Practice Measuring with a Yardstick and Meterstick 8

Unit 2

How to Compute Perimeter and Circumference 9
Practice Computing Perimeters of Rectangles 10
Practice Computing Perimeters of Regular Polygons 11
Practice Computing Perimeters of Irregular Polygons and Circumferences of Circles 12

Unit 3

How to Compute Area 13
Practice Computing the Areas of Rectangles and Parallelograms 14
Practice Computing the Areas of Triangles. . . . 15
Practice Computing the Areas of Circles 16

Unit 4

How to Compute the Volumes of Rectangular Prisms and Cylinders. 17
Practice Computing the Volumes of Rectangular Prisms 18
Practice Computing the Volumes of Cylinders 19
Practice Applying Volume Measurements to Real-Life Applications. 20

Unit 5

How to Measure Weights with an Equal-Arm Balance and a Scale. 21
Practice Calculating Weights in Grams and Kilograms. 22
Practice Calculating Weights in Ounces and Pounds 23
Practice Comparing Weights 24

Unit 6

How to Work with Liquid Measurements (Capacity) 25
Practice Calculating Fluid Ounces and Cups . . 26
Practice Converting Milliliters and Ounces . . . 27
Practice Using Liquid Measurements in Word Problems 28

Unit 7

How to Use a Protractor. 29
Practice Measuring Angles with a Protractor . . 30
Practice Measuring the Angles of Triangles . . . 31
Practice Using a Protractor with Circles. 32

Unit 8

How to Calculate Time with Clocks, Calendars, and Eras. 33
Practice Adding and Subtracting Time 34
Practice Using a Calendar 35
Practice Computing Time Before and After the Present Era. 36

Unit 9

How to Measure Temperature and Use a Thermometer. 37
Practice Using a Fahrenheit Thermometer 38
Practice Using a Celsius Thermometer. 39
Practice Comparing and Converting Temperatures. 40

Unit 10 (Word Problems)

Measuring Speed and Distance 41
Measuring Speed and Time 42

Unit 11 (Brain Teasers)

Polygons and Axioms 43
Multitude of Angles. 44

Unit 12 (Technology)

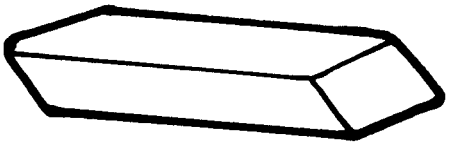
What's the Measurement? 45
Measuring and Comparing Large Land Areas 46
Answer Key 47

 © Teacher Created Resources, Inc.

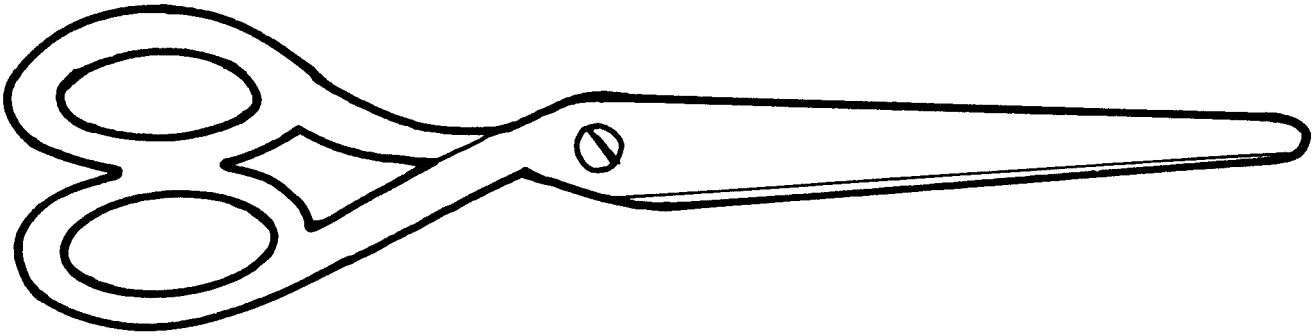
1 Practice • • • • • • • Measuring to the Half, Quarter, Eighth, and Sixteenth of an Inch

Directions: Use a ruler and the information on page 5 to measure each of the items illustrated here to the nearest sixteenth of an inch.

1. the length of this pen _____



2. the length of this eraser _____



3. the length of these scissors_____

4. the length of this pencil _____

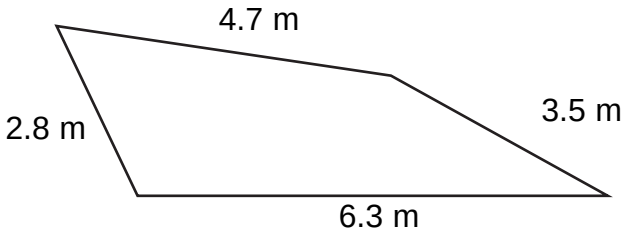
Directions: Use a ruler and the information on page 5 to measure each of the objects listed below to the nearest sixteenth of an inch.

5. the length of a calculator_____ inches
6. the length of a crayon _____ inches
7. the length of a pencil_____ inches
8. the height of a bottle _____ inches
9. the length of your thumb_____ inches
10. the length of your pinky _____ inches
11. the width of a watch face _____ inches
12. the length of your hair_____ inches
13. the length of a compass_____ inches
14. the length of a dollar bill_____ inches
15. the width of a math book_____ inches
16. the length of a paper _____ inches
17. the height of a cup_____ inches
18. the length of a leaf_____ inches

 © Teacher Created Resources, Inc.

2 Practice • • • • • Computing Perimeters of Irregular Polygons and Circumferences of Circles

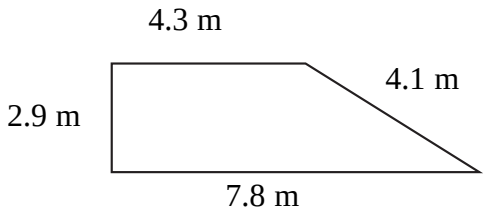
To compute the perimeter of an irregular polygon, add the lengths of the sides.



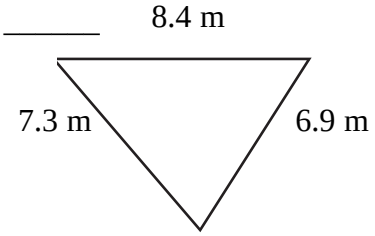
P = 4.7 m + 3.5 m + 6.3 m + 2.8 m = 17.3 m

Directions: Use the information on pages 5 and 9 to help you compute the perimeters of these polygons. Remember to label the unit of measurement—inches, feet, yards, centimeters, meters—in your answer.

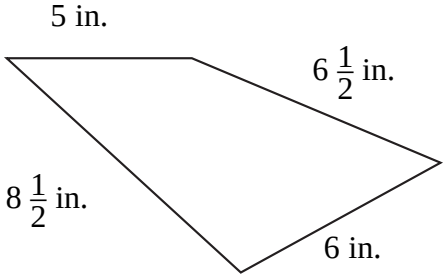
1. P = _____



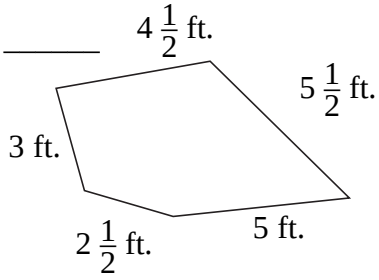
2. P = _____



3. P = _____

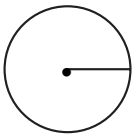


4. P = _____



Directions: Use the information on page 9 to help you compute the circumferences of these circles. ($C = 2\pi r$ or $C = \pi d$)

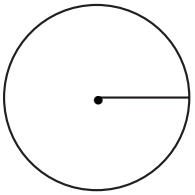
5.



r = 4 m

C = _____

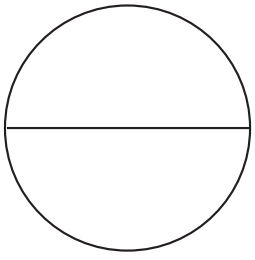
6.



r = 6 in.

C = _____

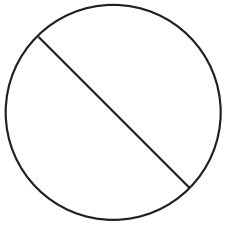
7.



d = 10 cm

C = _____

8.



d = 7 m

C = _____

 © Teacher Created Resources, Inc.