Table of Contents

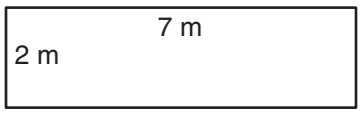
Place Value: Large Numbers 5
Comparing Numbers 6
Rounding Numbers 7
Two-Digit Addition with Regrouping 8
Three-Digit Addition with Regrouping 9
Addition of Large Numbers 10
Problem Solving: Addition 11
Two-Digit Subtraction with Regrouping 12
Three-Digit Subtraction with Regrouping 13
Subtraction of Large Numbers 14
Problem Solving: Subtraction 15
Estimating Sums and Differences 16
Multiplication Basic Facts 17
Multiplying with 10, 100, and 1,000 18
Multiplying with Multiples of 10, 100, and 1,000 19
Multiplication 20
Multiplication with Regrouping 21
Extending Multiplication with Regrouping 22
Problem Solving: Multiplication with Regrouping 23
Multiplying with Multiples of 10 24
Estimating Products 25
Two-Digit Multiplication 26
Three-Digit Multiplication 27
Problem Solving: Two- and Three-Digit Multiplication 28
Division Basic Facts 29
Division with Remainders 30
Dividing Multiples of 10 31
One-Digit Division 32
More One-Digit Division 33
One-Digit Division with Remainders 34
Problem Solving: One-Digit Division 35
Estimating Quotients 36
Two-Digit Division 37
More Two-Digit Division 38
Extending Two-Digit Division 39
Problem Solving: Two-Digit Division 40
Factors and Greatest Common Factor 41
Multiples and Least Common Multiple 42
Fractions 43
Equivalent Fractions in Higher Terms 44
Equivalent Fractions in Lower Terms 45
Comparing Fractions 46
Addition of Like Fractions 47
Subtraction of Like Fractions 48
Problem Solving: Addition and Subtraction of Like Fractions 49
Addition of Unlike Fractions 50
Subtraction of Unlike Fractions 51
Addition and Subtraction of Unlike Fractions 52
Problem Solving: Addition and Subtraction of Unlike Fractions 53
Mixed Numbers and Improper Fractions 54
Improper Fractions and Mixed Numbers 55
Addition and Subtraction of Mixed Numbers 56
Subtraction of Mixed Numbers with Regrouping 57
Addition of Mixed Numbers with Unlike Fractions 58
Subtraction of Mixed Numbers with Unlike Fractions 59
Problem Solving: Addition and Subtraction of Mixed Numbers 60
Fractional Part of a Set 61
Multiplication of Fractions 62
More Multiplication of Fractions 63
Multiplication of Mixed Numbers 64
Problem Solving: Multiplication of Fractions 65
Reciprocals and the Division of Fractions 66
Division with Fractions and Whole Numbers 67
Division with Fractions 68
Division with Mixed Numbers 69
Problem Solving: Division with Fractions 70

Decimals—Tenths and Hundredths 71
Decimals—Thousandths 72
Decimals—Place Value 73
Comparing Decimals 74
Changing Fractions to Decimals 75
Addition with Decimals 76
Subtraction with Decimals 77
Money Problems—Addition and Subtraction 78
Problem Solving: Money 79
More Addition and Subtraction with Decimals 80
Problem Solving: Addition and Subtraction with Decimals 81
Multiplication with Decimals 82
More Multiplication with Decimals 83
Money Problems—Multiplication 84
Multiplying Decimals by 10, 100, and 1,000 85
Problem Solving: Multiplication with Decimals 86
Division of Decimals by Whole Numbers 87
Dividing Decimals by 10, 100, and 1,000 88
Division with Decimals 89
More Division with Decimals 90
Money Problems—Division 91
Fractions and Equivalent Decimals 92
Problem Solving: Division with Decimals 93
Ratios 94
Rates and Unit Rates 95
Problem Solving: Ratios and Rates 96
Introduction to Percent 97
Fractions, Decimals, and Percents 98
Fractions and Percents 99
Finding a Percent of a Number 100
More Finding a Percent of a Number 101
Problem Solving: Finding a Percent of a Number 102
Geometry Concepts 103
Angles 104
Parallel and Perpendicular Lines 105
Triangles 106
Quadrilaterals 107
Circles 108
Customary Units of Length 109
Customary Units of Capacity 110
Customary Units of Weight 111
Problem Solving: Customary Units 112
Metric Units of Length 113
Metric Units of Capacity 114
Metric Units of Mass 115
Problem Solving: Metric Units 116
Perimeter 117
Perimeter—Rectangles 118
Perimeter—Squares 119
Circumference of a Circle 120
Problem Solving: Perimeter and Circumference 121
Area 122
Area—Rectangles 123
Area—Triangles 124
Problem Solving: Area 125
Volume 126
Volume—Rectangular Solids 127
Problem Solving: Volume 128

Perimeter

Perimeter is the distance around a figure.
Add to find the perimeter (P) of each figure.

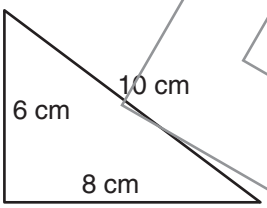
1.



$P = 2 + 7 + 2 + 7$

$P = 18$ m

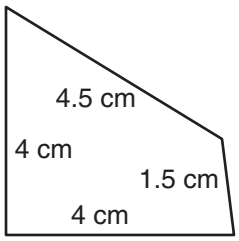
2.



$P =$

$P =$

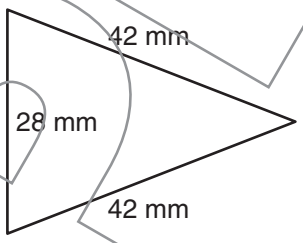
3.



$P =$

$P =$

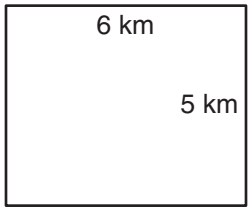
4.



$P =$

$P =$

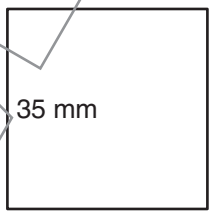
5.



$P =$

$P =$

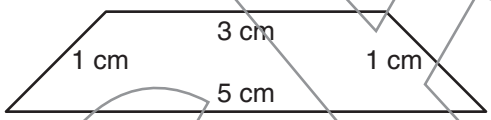
6.



$P =$

$P =$

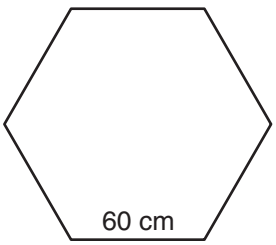
7.



$P =$

$P =$

8.



$P =$

$P =$

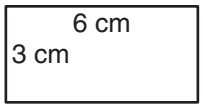
SAMPLE

© The Continental Press, Inc. DUPLICATING THIS MATERIAL IS ILLEGAL.

Perimeter—Rectangles

The perimeter of a rectangle is (2 × *length*) + (2 × *width*).
The formula for this is written $P = (2 \times l) + (2 \times w)$.
Use the formula to find the perimeter of each rectangle.

S



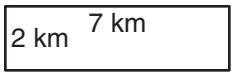
$P = (2 \times l) + (2 \times w)$

$P = (2 \times \underline{6}) + (2 \times \underline{3})$

$P = \underline{12} + \underline{6}$

$P = \underline{18}$ cm

1.



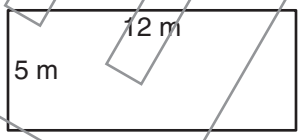
$P = (2 \times l) + (2 \times w)$

$P = (2 \times ____) + (2 \times ____)$

$P = _____ + _____$

$P = _____$ km

2.



$P = (2 \times l) + (2 \times w)$

$P = (2 \times ____) + (2 \times ____)$

$P = _____ + _____$

$P = _____$ m

3. $l = 10$ km, $w = 9$ km

4. $l = 54$ m, $w = 24$ m

5. $l = 15$ cm, $w = 7$ cm

6. $l = 28$ cm, $w = 36$ cm

7. $l = 9$ km, $w = 6$ km

8. $l = 100$ m, $w = 75$ m

Find the answer to each word problem.

9. A pasture is a rectangle 50 meters long and 39 meters wide. What is the perimeter of the pasture?

10. A cat door is a rectangular flap over a hole cut in a door. The cat door is 22 centimeters high and 16 centimeters wide. What is the perimeter?

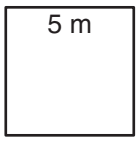
SAMPLE

© The Continental Press, Inc. DUPLICATING THIS MATERIAL IS ILLEGAL.

Perimeter—Squares

The perimeter of a square is 4 × *side*.
The formula for this is written $P = 4 \times side$.
Use the formula to find the perimeter of each square.

S

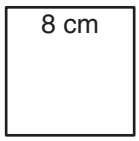


$P = 4 \times s$

$P = 4 \times \underline{5}$

$P = \underline{20}$ m

1.

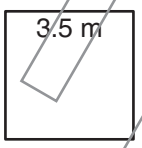


$P = 4 \times s$

$P = 4 \times ____$

$P = _____$ cm

2.



$P = 4 \times s$

$P = 4 \times ____$

$P = _____$ m

3. $s = 2$ km

4. $s = 12$ cm

5. $s = 60$ mm

6. $s = 35$ m

7. $s = 96$ cm

8. $s = 9.2$ km

Find the answer to each word problem.

9. The entrance to an attic is a square hole 80 centimeters on each side. What is the perimeter of the hole?

10. A sidewalk surrounds a square building that measures 125 meters on each side. What is the perimeter of the building?

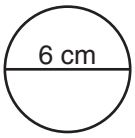
SAMPLE

© The Continental Press, Inc. DUPLICATING THIS MATERIAL IS ILLEGAL.

Circumference of a Circle

The circumference of a circle is the distance around it. It is equal to pi (π) times the diameter of the circle. Pi is a special number that is close to 3.14. The formula is written $C = \pi \times d$ or $C = 3.14 \times d$.
Use the formula to find the circumference of each circle.

S

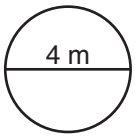


$C = \pi \times d$

$C = 3.14 \times 6$

$C = 18.84$ cm

1.

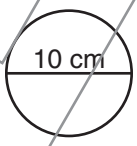


$C = \pi \times d$

$C = 3.14 \times ____$

$C = _____$ m

2.



$C = \pi \times d$

$C = 3.14 \times ____$

$C = _____$ cm

Find the circumference of each circle. Remember, the diameter is 2 times the radius (r).

S $r = 4$ cm

$C = \pi \times d$

$C = 3.14 \times 8$

$C = 25.12$ cm

3. $r = 8$ m

4. $r = 10$ cm

Find the circumference of each circle. Use the diameter or radius given.

5. $d = 2$ cm

6. $r = 7$ km

7. $d = 12$ mm

8. $r = 2.5$ m

9. $d = 5.5$ m

10. $r = 1.75$ cm

Find the answer to each word problem.

11. A circular fountain has a diameter of 3 meters. What is the circumference of the fountain?

12. A wheel has a radius of 28 centimeters. What is the circumference of the wheel?

SAMPLE

© The Continental Press, Inc. DUPLICATING THIS MATERIAL IS ILLEGAL.

Problem Solving: Perimeter and Circumference

Find the answer to each word problem.

1. A poster is 71 centimeters long and 56 centimeters wide. How much tape does Salim need to cover its edges?

2. Mr. Han's backyard is a square 25 meters on a side. How much fencing would he need to completely surround the backyard?

3. A dinner plate has a diameter of 20 centimeters. What is the circumference of the plate?

4. The football team jogged once around the football field. If the field is 110 meters long and 49 meters wide, how far did the team jog?

5. Ms. Cohen walks around the edge of a square park that is 300 meters long on a side. How far does she walk?

6. A traffic circle has a radius of 5.25 meters. What is the circumference of the traffic circle?

7. Inez is building a pen for her pet rabbit. The pen is 2 meters long and 1.5 meters wide. What is the perimeter of the pen?

8. A field of corn is 0.75 kilometer long and 0.35 kilometer wide. What is the perimeter of the field?

SAMPLE

© The Continental Press, Inc. DUPLICATING THIS MATERIAL IS ILLEGAL.