Steck-Vaughn Adult Education

Aztec Paxen Publishing

Math

Level B

Sampler

A Tutor™ for CASAS GOALS 2 Workbook

- Companion workbook to *A Tutor™ for CASAS GOALS 2 Student Edition*
- Additional practice items aligned to CASAS GOALS 2 and CCRS

Aztec Paxen Publishing

Math

A Tutor™ for CASAS GOALS 2 Workbook

Level B

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About CASAS Math GOALS 2

The CASAS Math GOALS 2 tests measure basic adult math skills and the ability to make calculations and solve word problems that relate to real-world situations and traditional academic contexts. The CASAS Math GOALS 2 tests include multiple-choice items with four answer options. Basic calculators are allowed. Formulas are provided.

The CASAS Math GOALS 2 tests align with the CASAS Competencies and the Adult Education College and Career Readiness (AE-CCR) Mathematics Standards.

CASAS Math GOALS 2 Level B Blueprint

Level B Content Areas	Percentage of Coverage	CCR Standard Code
Number Sense and Operations	36%	NBT, NOF, NS, RPR
Algebraic Thinking	17%	OA, EE
Geometry and Measurement	28%	G, MD
Data Analysis and Statistics	19%	MD, SP

AE-CCR Mathematics Standard Code Key

NBT	Number and Operations in Base Ten
NS	The Number System
NOF	Number and Operations—Fractions
RPR	Ratios and Proportional Relationships
OA	Operations and Algebraic Thinking
EE	Expressions and Equations
G	Geometry
MD	Measurement and Data
SP	Statistics and Probability

Using *A Tutor™ for CASAS Math GOALS 2 Workbook*

A Tutor™ for CASAS Math GOALS 2 Level B: Workbook is designed to be used hand-in-hand with *A Tutor™ for CASAS Math GOALS 2 Level B: Student Edition.* The student edition includes instruction and practice for the Adult Education College and Career Readiness standards assessed on the CASAS Math GOALS 2 test.

Practice Sets

A Tutor™ for CASAS Math GOALS 2 Level B: Workbook includes practice sets for each lesson in *A Tutor™ for CASAS Math GOALS 2 Level B: Student Edition.* Each practice set provides additional items similar to those found on the CASAS Math GOALS 2 Level B test.

- Use the practice sets after completing the corresponding student edition lesson if you feel you need additional practice.
- Use the practice sets after completing the unit reviews in the student edition for areas that need review and improvement.

Unit Reviews

A Tutor™ for CASAS Math GOALS 2 Workbook unit reviews allow you to check your understanding of the skills presented in each unit. Use the corresponding Unit Review Analysis Charts on pages 265–282 to identify strengths and weaknesses. These charts will help you determine if you need to go back to any of the lessons before continuing.

Answers and Explanations

A Tutor™ for CASAS Math GOALS 2 Workbook includes explanations for the correct answers to all practice items. After completing a practice set or unit review, check your answers on pages 198–264. For each item answered incorrectly, read the provided explanation to help you rework the item to obtain the correct answer.

Please remember, there may be more than one way to solve a math problem. The explanations show one method of solving a problem. You may have used a different method than the one provided to correctly answer the question.

Test-Taking Tips

- Read the directions and each question very carefully. Read through them word for word.
- Read all the answer options carefully, even if you think you know the answer.
- Answer all the questions. If you cannot find the right answer, rule out the answers that you know are wrong. Then try to figure out the right answer. If you still do not know, make your best guess.
- If you cannot figure out the answer on the paper-and-pencil test, put a light mark by the question number on the answer sheet and come back to it later. Erase your marks before you finish. If you cannot figure out the answer on the online test, flag the item for review.
- Do not change an answer unless you are sure your first answer is wrong. Usually, your first idea is the correct answer.
- If you get nervous, take a few breaths and relax. Then start working again.

Practice 1 Multi-Digit Whole Number Place Value

4.NBT.2

1 What number does the following expanded form represent?

700,000 + 1,000 + 900 + 80 + 2

A. 71,982

B. 79,802

C. 701,982

D. 710,982

2 Miami has population of 6,317,002 people according to a recent census. What is the place value of the 1 in the population of Miami?

A. 1 thousand (1,000)

B. 1 one (1)

C. 1 hundred thousand (100,000)

D. 1 ten thousand (10,000)

3 What is the following number in word form?

83,054,721

A. eighty-three million, fifty-four thousand, seven hundred twenty-one

B. eight million, three hundred fifty-four thousands, seven hundred twenty-one

C. eighty-three million, five hundred four thousand, seven hundred twenty-one

D. eighty-three million, fifty-four thousand, and seven hundred twenty-oneths

4 What is the value of 2 in 235,937?

A. hundreds

B. ten thousands

C. hundred thousands

D. one thousands

5 What number is represented by the given word form?

two hundred seventy-six thousand, fifteen

A. 270,615

B. 207,615

C. 276,150

D. 276,015

6 What number is represented by the given word form?

one hundred five million, three hundred forty-nine thousand, two hundred sixty

A. 105,349,260

B. 150,394,060

C. 100,534,960

D. 105,034,960

7 What is the following number in expanded form?

302,114,654

A. 300,000 + 20,000 + 1,000 + 1,000 + 400 + 600 + 50 + 4

B. 300 + 20 + 11 + 400 + 60 + 54

C. 300,000,000 + 2,000,000 + 100,000 + 10,000 + 4,000 + 600 + 50 + 4

D. 300,000 + 20,000 + 114,000 + 600 + 50 + 4

8 The First Century Bank needs to remove old dollar bills from circulation. The project manager finds there are 1,027 bills that need to be removed. What is the place value of the 0 in this number?

A. 0 thousands (0)

B. 0 ones (0)

C. 0 hundreds (0)

D. 0 tens (0)

9 Which is the correct place value of the underlined digit?

571,203,998

A. ten millions

B. hundred thousands

C. ten thousands

D. one thousands

10 Which is the correct place value of the underlined digit?

113,685

A. hundreds

B. ten thousands

C. ones

D. tens

11 What is the value of 5 in 15,486,307?

A. one thousand

B. hundred thousands

C. one millions

D. ten million

12 Raj spent $38,456 on a new SUV. What is the word form of the amount Raj spent?

A. three hundred eighty thousand four hundred fifty-six dollars

B. three hundred eighty-four thousand five hundred sixty dollars

C. thirty-eight four hundred fifty-six dollars

D. thirty-eight thousand four hundred fifty-six dollars

13 What is the following number in expanded form?

two million, three hundred seven

A. 2,000,000 + 300,000 + 7,000

B. 2,000,000 + 300 + 7

C. 200,000 + 30,000 + 7,000

D. 200,000 + 300 + 7

14 Which is the correct place value of the underlined digit?

309,876,421

A. millions

B. thousands

C. ten millions

D. hundred thousands

15 Quinn wrote the price of her new house in expanded form. What was the price of Quinn's new house?

$300,000 + $40,000 + $500 + $90 + $2

A. $345,920

B. $340,592

C. $304,592

D. $345,902

16 What number is represented by the given word form?

nine hundred forty-six thousand, eight hundred one

A. 946,810

B. 946,801

C. 9,046,081

D. 9,460,801

Practice 12 Decimals and Fractions

4.NF.6

1 What is 0.9 written as a fraction?

A. $\frac{0.9}{10}$

B. $\frac{9}{10}$

C. $\frac{9}{100}$

D. $\frac{9}{1}$

2 What is 0.45 written as a fraction?

A. $\frac{45}{10}$

B. $\frac{4.5}{10}$

C. $\frac{0.45}{100}$

D. $\frac{45}{100}$

3 What is 0.20 written as a fraction?

A. $\frac{20}{10}$

B. $\frac{0.2}{10}$

C. $\frac{0.2}{100}$

D. $\frac{20}{100}$

4 What is 0.05 written as a fraction?

A. $\frac{0.05}{10}$

B. $\frac{5}{10}$

C. $\frac{5}{100}$

D. $\frac{0.5}{100}$

5 What is 0.04 written as a fraction?

A. $\frac{4}{100}$

B. $\frac{4}{10}$

C. $\frac{40}{10}$

D. $\frac{0.4}{100}$

6 A bottle contains 0.18 liter of juice. How is the number of liters of juice written as a fraction?

A. $\frac{18}{100}$

B. $\frac{18}{10}$

C. $\frac{0.18}{10}$

D. $\frac{8}{100}$

7 What is 0.02 written as a fraction?

A. $\frac{0.02}{100}$

B. $\frac{2}{10}$

C. $\frac{2}{100}$

D. $\frac{0.2}{100}$

8 What is 0.7 written as a fraction?

A. $\frac{0.7}{10}$

B. $\frac{7}{10}$

C. $\frac{7}{100}$

D. $\frac{7}{1}$

9 A piece of fabric is 0.12 inch thick. How is the thickness written as a fraction?

A. $\frac{12}{100}$

B. $\frac{12}{10}$

C. $\frac{1}{12}$

D. $\frac{1.2}{100}$

10 What is 0.01 written as a fraction?

A. $\frac{0.01}{10}$

B. $\frac{1}{10}$

C. $\frac{1}{100}$

D. $\frac{1}{1}$

11 What is 0.03 written as a fraction?

A. $\frac{0.3}{10}$

B. $\frac{3}{10}$

C. $\frac{3}{100}$

D. $\frac{3}{1}$

12 What is 0.80 written as a fraction?

A. $\frac{80}{10}$

B. $\frac{0.8}{10}$

C. $\frac{0.8}{100}$

D. $\frac{80}{100}$

13 What is 0.84 written as a fraction?

A. $\frac{84}{100}$

B. $\frac{84}{10}$

C. $\frac{84}{10}$

D. $\frac{0.84}{100}$

14 A bucket contains 0.82 gallon of soapy water. How is the number of liters of soapy water written as a fraction?

A. $\frac{82}{10}$

B. $\frac{8.2}{10}$

C. $\frac{82}{100}$

D. $\frac{.82}{100}$

15 What is 0.6 written as a fraction?

A. $\frac{0.6}{10}$

B. $\frac{6}{10}$

C. $\frac{6}{100}$

D. $\frac{6}{1}$

16 What is 0.27 written as a fraction?

A. $\frac{0.27}{10}$

B. $\frac{27}{10}$

C. $\frac{27}{100}$

D. $\frac{0.27}{100}$

17 What is 0.32 written as a fraction?

A. $\frac{0.32}{100}$

B. $\frac{32}{10}$

C. $\frac{0.32}{10}$

D. $\frac{32}{100}$

18 A piece of cardboard is 0.51 inch thick. How is the thickness written as a fraction?

A. $\frac{51}{100}$

B. $\frac{51}{10}$

C. $\frac{1}{51}$

D. $\frac{5.1}{100}$

19 What is 0.1 written as a fraction?

A. $\frac{0.01}{10}$

B. $\frac{1}{10}$

C. $\frac{1}{100}$

D. $\frac{1}{1}$

20 What is 0.62 written as a fraction?

A. $\frac{62}{10}$

B. $\frac{6.2}{10}$

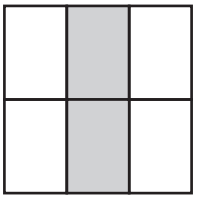
C. $\frac{0.62}{100}$

D. $\frac{62}{100}$

Practice 19 Represent Unit Fractions

3.NF.1

1 Which fraction names the part that is *not* shaded?



A. $\frac{1}{6}$ B. $\frac{1}{3}$

C. $\frac{2}{6}$ D. $\frac{4}{6}$

2 Antonio divides a rectangle into three equal parts. Which fraction names one part of the rectangle?

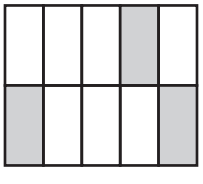
A. $\frac{1}{3}$

B. $\frac{1}{5}$

C. $\frac{1}{6}$

D. $\frac{1}{8}$

3 Which fraction names the shaded part?



A. $\frac{1}{10}$ B. $\frac{3}{10}$

C. $\frac{3}{5}$ D. $\frac{10}{3}$

4 How many eighths make a whole?

A. 1 B. 4

C. 8 D. 16

5 Viviana cuts a stone paver into five equal pieces. Which describes the whole paver?

A. 2 fifths B. 3 fifths

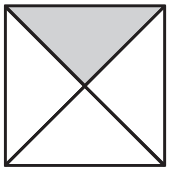
C. 4 fifths D. 5 fifths

6 Reha slices an orange into six equal parts. Which fraction represents one part of the orange?

A. $\frac{1}{6}$ B. $\frac{6}{6}$

C. $\frac{1}{1}$ D. $\frac{6}{1}$

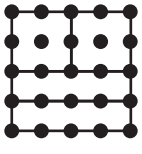
7 Which fraction names the shaded part?



A. $\frac{4}{4}$ B. $\frac{1}{2}$

C. $\frac{1}{3}$ D. $\frac{1}{4}$

8 Which statement about the shape is *true*?



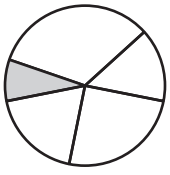
A. The parts are equal even though they have different shapes. The equal parts represent thirds.

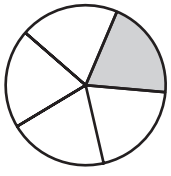
B. The parts are equal even though they have different shapes. The equal parts represent halves.

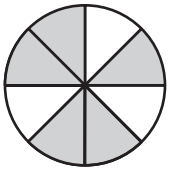
C. The parts are equal even though they have different shapes. The equal parts represent fourths.

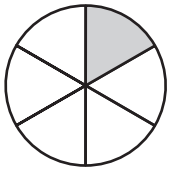
D. The parts are equal even though they have different shapes. The equal parts represent eighths.

9 Which of the following shows $\frac{1}{5}$?

A. 

B. 

C. 

D. 

10 Which of the following describes one whole?

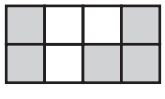
A. 3 fourths

B. 3 thirds

C. 1 half

D. 1 fifth

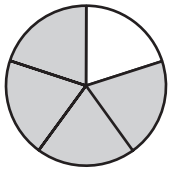
11 Which fraction names the shaded part?



A. $\frac{1}{8}$ **B.** $\frac{1}{5}$

C. $\frac{5}{8}$ **D.** $\frac{8}{5}$

12 Which statement is *true*?



A. The shaded part represents $\frac{3}{5}$.

B. The shaded part represents $\frac{2}{5}$.

C. The unshaded part represents $\frac{1}{5}$.

D. The unshaded part represents $\frac{4}{5}$.

13 How many equal parts are in a rectangle shaded to represent $\frac{6}{10}$?

A. 10 parts **B.** 6 parts

C. 4 parts **D.** 1 part

14 Which of these represents a whole?

A. $\frac{1}{2}$

B. $\frac{4}{4}$

C. $\frac{3}{4}$

D. $\frac{2}{4}$

15 Nico divides a circle into seven equal parts. Which fraction names one of the parts?

A. $\frac{7}{1}$ **B.** $\frac{7}{7}$

C. $\frac{1}{7}$ **D.** $\frac{1}{8}$

16 Which statement about a circle shaded to represent $\frac{4}{6}$ is *true*?

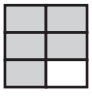
A. The circle has 2 equal parts.

B. The circle has 3 equal parts.

C. The circle has 4 equal parts.

D. The circle has 6 equal parts.

17 Which statement is *true*?



A. The unshaded part represents $\frac{1}{6}$.

B. The unshaded part represents $\frac{1}{5}$.

C. The shaded part represents $\frac{4}{6}$.

D. The shaded part represents $\frac{3}{5}$.

18 Niesha divides a circle into four equal parts. Which of the following names three parts of Niesha's circle?

A. one-fourth **B.** three-fourths

C. one-third **D.** four-thirds

Practice 29 Add and Subtract Fractions with the Same Denominator

4.NF.3, 4.NF.3.a, 4.NF.3.b, 4.NF.3.d

1 Jackson wants to double a recipe for muffins. One batch of the recipe calls for $\frac{3}{4}$ cup of flour. How much flour does Jackson need for two batches?

A. $\frac{3}{8}$ cup
B. $\frac{6}{8}$ cup
C. $\frac{6}{4}$ cups
D. $\frac{9}{4}$ cups

2 Natalie cuts a cake into 12 equal pieces. She gives two pieces to her friends and eats one piece herself. How much of the cake is left?

A. $\frac{3}{12}$
B. $\frac{6}{12}$
C. $\frac{7}{12}$
D. $\frac{9}{12}$

3 Which of these is equal to $\frac{3}{10}$?

A. $\frac{1}{10} + \frac{1}{10} + \frac{1}{10}$
B. $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$
C. $10 + 10 + 10$
D. $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3$

4 Brandon has $\frac{7}{8}$ hour of free time. He spends $\frac{3}{8}$ hour watching his favorite television show and the rest of the time playing a video game. How long does Brandon spend playing the video game?

A. $\frac{3}{8}$ hour
B. $\frac{4}{8}$ hour
C. $\frac{10}{8}$ hours
D. $\frac{11}{8}$ hours

5 Pleasantville gets $\frac{9}{100}$ inch of rain in one day. Center City gets $\frac{6}{100}$ inch of rain on the same day. How much more rain does Pleasantville get than Center City?

A. $\frac{3}{100}$ in.
B. $\frac{4}{100}$ in.
C. $\frac{15}{100}$ in.
D. $\frac{54}{100}$ in.

6 Lisa uses $\frac{1}{3}$ skein of yarn to knit one baby hat. How much yarn does she need to knit three baby hats?

A. $\frac{1}{6}$ skein
B. $\frac{2}{3}$ skein
C. $\frac{3}{3}$ skein
D. $\frac{3}{2}$ skeins

7 Brian is walking to a store that is one mile away from his house. He has already walked $\frac{1}{2}$ mile. How much farther does Brian need to walk?

A. $\frac{5}{2}$ miles
B. 2 miles
C. 1 mile
D. $\frac{1}{2}$ mile

8 Kari has $\frac{4}{5}$ liter of water in her water bottle. She drinks $\frac{2}{5}$ liter of water during an exercise class. How much water is left in Kari's water bottle?

A. $\frac{2}{5}$ liter
B. $\frac{3}{5}$ liter
C. $\frac{5}{5}$ liter
D. $\frac{6}{5}$ liters

9 Celia spends $\frac{1}{6}$ hour rolling out one pie crust. How long will it take Celia to roll out two pie crusts?

A. $\frac{1}{6}$ hour
B. $\frac{2}{6}$ hour
C. $\frac{3}{6}$ hour
D. $\frac{6}{2}$ hours

10 What is $\frac{7}{10} - \frac{5}{10} = ?$

A. $\frac{1}{10}$
B. $\frac{2}{10}$
C. $\frac{3}{10}$
D. $\frac{12}{10}$

11 Yolanda ties $\frac{1}{8}$ yard of ribbon to a balloon to use as a party decoration. How much ribbon does Yolanda need for two balloons?

A. $\frac{2}{8}$ yard
B. $\frac{4}{8}$ yard
C. $\frac{8}{8}$ yard
D. $\frac{8}{2}$ yards

12 Wade spends $\frac{5}{6}$ hour running and lifting weights. He runs for $\frac{2}{6}$ hour. How long does Wade spend lifting weights?

A. $\frac{10}{6}$ hours
B. $\frac{7}{6}$ hours
C. $\frac{4}{6}$ hour
D. $\frac{3}{6}$ hour

13 Rebecca divides a board into three equal sections. She paints one section white. How much of the board is *not* painted?

A. $\frac{1}{3}$
B. $\frac{2}{3}$
C. $\frac{3}{3}$
D. $\frac{3}{1}$

14 Max puts $\frac{1}{2}$ cup of brown sugar into a bowl. He puts in double the amount of white sugar as brown sugar. How much white sugar does Max put in the bowl?

A. $\frac{1}{4}$ cup
B. $\frac{1}{2}$ cup
C. $\frac{2}{2}$ cup
D. $\frac{2}{1}$ cups

15 Sarah has $\frac{3}{4}$ gallon of apple juice in a jug. She pours $\frac{2}{4}$ gallon into a pitcher. How much apple juice is left in the jug?

A. $\frac{1}{4}$ gallon
B. $\frac{2}{4}$ gallon
C. $\frac{4}{4}$ gallon
D. $\frac{5}{4}$ gallons

16 Jim has $\frac{10}{100}$ kilogram of salt. He wants to distribute the salt between two saltshakers. Which combination shows a way that Jim could put the salt in the saltshakers?

A. $\frac{8}{100}$ kg and $\frac{3}{100}$ kg
B. $\frac{7}{100}$ kg and $\frac{2}{100}$ kg
C. $\frac{4}{100}$ kg and $\frac{6}{100}$ kg
D. $\frac{1}{100}$ kg and $\frac{8}{100}$ kg

17 Jackie works a five-hour shift. She spends four of the hours working at the cash register. She spends the rest of the time stocking items. What fraction of her shift does Jackie spend stocking items?

A. $\frac{5}{5}$
B. $\frac{4}{5}$
C. $\frac{1}{4}$
D. $\frac{1}{5}$

18 Tom is building a table with six equal sections. He will use pine for one section, oak for one section, and cherry wood for the rest of the table. What fraction of the table will be made from cherry wood?

A. $\frac{1}{6}$
B. $\frac{2}{6}$
C. $\frac{4}{6}$
D. $\frac{6}{6}$

19 There are 12 months in one year. The names of 8 of the months contain the letter *r*. The rest of the names of the months do not. What fraction of the names of the months do *not* contain the letter *r*?

A. $\frac{1}{12}$
B. $\frac{4}{12}$
C. $\frac{8}{12}$
D. $\frac{12}{12}$

Practice 43 Evaluate Expressions with Grouping Symbols

5.OA.1

1 Sam works 35 hours this week and earns $17.00 per hour. His expenses for the week include a cell phone bill for $89.54, groceries for $106.23, a tank of gas for $25.67, and $45.32 for new shoes. On Saturday, Sam buys four ice cream cones for his family, which cost $1.49 each. Which statement is *true*?

A. Sam earns $59.50 this week.

B. Sam's weekly expenses total $272.72.

C. After this week's expenses, Sam has $367.28 left.

D. Sam cannot afford to buy the ice cream cones.

2 What is the value of $(34 + 76) \div 2 \times 10$?

A. 5 **B.** 132

C. 550 **D.** 605

3 Michele buys three books for $4.95 each, two bookmarks for $2.49 each, and a cup of coffee for $3.79. How much does Michele spend in all?

A. $4.98 **B.** $11.23

C. $14.85 **D.** $23.62

4 Matthew has $60. He buys two gallons of paint for $25.79 per gallon. Which expression can Matthew use to find the amount of money left?

A. $60 + (2 \times 25.79)$

B. $60 \times (2 \times 25.79)$

C. $60 - (2 \times 25.79)$

D. $60 - (2 + 25.79)$

5 Heidi buys three bags that each contain 50 quarts of soil. She buys pots that each hold two quarts of soil. How many pots can Heidi fill with the soil?

A. 10 pots **B.** 33 pots

C. 75 pots **D.** 300 pots

6 What is the value of $(9 \times 7) \div (7 - 4)$?

A. 5

B. 21

C. 122

D. 186

7 Rhegan buys two bags of walnuts that each weigh five pounds. She uses seven pounds of nuts to make trail mix. How many pounds of nuts does Rhegan have left?

A. 3 lb **B.** 10 lb

C. 14 lb **D.** 17 lb

8 What is the value of $19 \times 6 + 27 \div 9$?

A. 38

B. 117

C. 171

D. 209

9 Bennett has five baskets of apples that sell for $12 each and 15 baskets of apples that sell for $7 each at the farmers' market. Bennet pays $25 to rent the space. Which expression shows the amount Bennet will earn if he sells all of the apples?

A. $5 + 12 + 15 + 7 - 25$

B. $(5 \times 12) + (15 \times 7) - 25$

C. $(5 \times 12) - (15 \times 7) + 25$

D. $(5 \times 12) - (15 \times 7) - 25$

10 Jade earns $15 for each meal she delivers for a local restaurant. She delivers nine meals in one night. With her earnings, Jade spends $12 on a car wash, $19.64 on a tank of gas, and $45 on a gift for her mother. How much money does Jade have left?

A. $58.36 **B.** $76.64

C. $135.00 **D.** $193.36

11 Dave makes fishing lures. He usually buys a kit with all his supplies for $39.99. This week, the kit is on sale for $32.99. Dave buys three kits at the sale price. Which statement is *true*?

A. The regular cost of three kits is $119.97.

B. Dave saves a total of $8.00 on three kits.

C. To find the amount Dave pays, use the expression $(3 \times 39.99) - 32.99$.

D. To find the total amount Dave saves, use the expression $39.99 - (3 \times 32.99)$.

Use the table to answer questions 12 and 13.

Item	Cost
Hamburger	$5.75
Chicken Sandwich	$4.75
Veggie Burger	$5.25

12 Jill buys two hamburgers, one chicken sandwich, and three veggie burgers for her co-workers. Which expression represents the situation?

A. $(2 \times 5.75) - 4.75 + (3 \times 5.25)$

B. $(2 \times 5.75) + 4.75 + (3 \times 5.25)$

C. $5.75 + 4.75 + 5.25$

D. $2 \times 5.75 + 2 \times 4.75 + 3 \times 5.25$

13 Jim buys two chicken sandwiches and pays with a $20 bill. How much does Jim receive in change?

A. $4.75

B. $9.50

C. $10.50

D. $15.25

---

14 Gas is selling for $2.49 per gallon. Vanessa has a coupon that brings the cost down to $2.38 per gallon. How much will Vanessa save on 17 gallons of gas?

A. $1.87

B. $2.60

C. $40.46

D. $42.33

Use the table to answer questions 15 and 16.

Beverage	Cost
Coffee – small	$1.19
Coffee – medium	$1.59
Coffee – large	$1.89

15 Kyle buys two small coffees and two large coffees. Beth buys three medium coffees. Which expression shows the total amount that Kyle and Beth spend?

A. $2 \times (1.19 + 1.59 + 1.89)$

B. $2 \times (1.19 + 1.89) + 3 \times 1.59$

C. $4 \times (1.19 + 1.59 + 1.89)$

D. $(2 + 2 + 3) \times (1.19 + 1.59 + 1.89)$

16 Nic buys four of each size of coffee as a treat for his co-workers. How much change does Nic receive from $20?

A. $1.32 **B.** $4.76

C. $7.56 **D.** $18.68

---

17 What is the value of $(33 - 18) \div 3$?

A. 5 **B.** 17

C. 18 **D.** 27

Use the table to answer questions 18 and 19.

Rental	Cost (per hour)
Bicycle	$19.99
Scooter	$10.99
Skateboard	$7.99

18 The Cooper family rents five bicycles, three scooters, and two skateboards while on vacation. They rent each for one hour. Which expression represents the situation?

A. $(5 + 3 + 2) \times (19.99 + 10.99 + 7.99)$

B. $(5 + 19.99) \times (3 + 10.99) \times (2 + 7.99)$

C. $(5 \times 3 \times 2) + (19.99 \times 10.99 \times 7.99)$

D. $(5 \times 19.99) + (3 \times 10.99) + (2 \times 7.99)$

19 Rachel rents a bicycle for three hours. Wendi rents a scooter for four hours. How much more does Rachel pay than Wendi?

A. $9.00 **B.** $12.00

C. $16.01 **D.** $19.93

Practice 54 Write Expressions

6.EE.2, 6.EE.2.a, 6.EE.2.b

1 Susan is three years older than Monica. Which algebraic expression represents Susan's age in relation to Monica's age, m?

A. $m - 3$
B. $m + 3$
C. $\frac{m}{3}$
D. $3m$

2 The volume of a large cylinder is two cubic centimeters less than four times a smaller cylinder's volume, v. Which algebraic expression represents the volume of the large cylinder?

A. $\frac{4v}{2}$
B. $\frac{2v}{4}$
C. $4v - 2$
D. $2v - 4$

3 Marshall has quarters equal to half the sum of his number of dimes, d, and five. Which algebraic expression represents the number of quarters Marshall has?

A. $\frac{d}{2} - 5$
B. $\frac{d}{5} - 2$
C. $\frac{d + 2}{5}$
D. $\frac{d + 5}{2}$

4 Casey drives 65 miles per hour for h hours. Which algebraic expression represents the number of miles that Casey drives?

A. $65h$
B. $\frac{65}{h}$
C. $65 + h$
D. $65 - h$

5 Maurice deposits $500 in a checking account, and he pays a $2 fee per month. Which expression represents the amount of money Maurice has in his account after m months?

A. $500m$
B. $\frac{500}{2m}$
C. $500 + 2m$
D. $500 - 2m$

6 Which algebraic expression can be translated as *four times the sum of x and two*?

A. $4(x + 2)$
B. $2x + 4$
C. $4x + 2$
D. $\frac{4x}{2}$

7 How many terms are in the algebraic expression $7x + 3 - \frac{4}{y}$?

A. 2
B. 3
C. 4
D. 5

8 The length of a rectangle is five more than two times its height, h. Which algebraic expression represents the length of the rectangle?

A. $2h + 5$
B. $2h - 5$
C. $2(h + 5)$
D. $5(h + 2)$

9 Cashews cost $3.49 per ounce. Which algebraic expression represents the cost of c ounces of cashews?

A. $3.49c$
B. $\frac{3.49}{c}$
C. $3.49 + c$
D. $3.49 - c$

10 The algebraic expression that represents the weight of a metal container based on the number of plastic cubes it holds is $3c + 15$. Which phrase represents this expression?

A. the difference of 15 and the number of plastic cubes multiplied by three

B. three times the difference of the number of plastic cubes and 15

C. three times the sum of the number of plastic cubes and 15

D. 15 more than three times the number of plastic cubes

11 The width of a rectangle is the quotient of the area, A, and three. Which algebraic expression represents the width of the rectangle?

A. $A - 3$ **B.** $A + 3$

C. $\frac{A}{3}$ **D.** $3A$

12 The area of a rectangle is the product of the sum of x and four and the sum of x and seven. Which algebraic expression represents the area of the rectangle?

A. $x + 4 + 7$

B. $7(x + 4)$

C. $(x + 4) + 7$

D. $(x + 4)(x + 7)$

13 The length of a wall is represented by the algebraic expression $8w + 2$. What is the coefficient in the expression?

A. 8 **B.** w

C. $+$ **D.** 2

14 Jeremy runs seven miles per hour for h hours. Which expression represents the number of miles Jeremy runs?

A. $7h$

B. $\frac{7}{h}$

C. $\frac{h}{7}$

D. $7 - h$

15 Which expression means *the quotient of five and the sum of x and eight*?

A. $\frac{5}{x} + 8$ **B.** $5 + \frac{x}{8}$

C. $\frac{5}{x + 8}$ **D.** $\frac{5 + x}{8}$

16 The height of a building is the sum of 12 times its width, w, and 26. Which algebraic expression represents the height of the building?

A. $12w + 26$ **B.** $26w + 12$

C. $12(w + 26)$ **D.** $26(w + 12)$

17 Kelly takes four hours to drive m miles. Which algebraic expression represents the number of miles Kelly drives per hour?

A. $m - 4$ **B.** $m + 4$

C. $\frac{m}{4}$ **D.** $4m$

18 The weight of a basket of peaches is one plus the quotient of the number of peaches, p, and four. Which algebraic expression represents the weight of the basket of peaches?

A. $1 + p - 4$

B. $1 + p + 4$

C. $1 + \frac{p}{4}$

D. $\frac{1 + p}{4}$

19 The volume of a cylinder is the product of the area, A, and 13. Which algebraic expression represents the volume of the cylinder?

A. $A - 13$

B. $A + 13$

C. $\frac{A}{13}$

D. $13A$

20 Earl makes \$95 for working h hours. Which expression represents the dollars per hour Earl makes?

A. $95h$ **B.** $\frac{95}{h}$

C. $95 + h$ **D.** $95 - h$

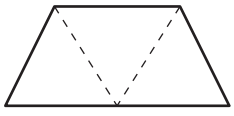
Practice 61 Polygons

5.G.3

Use the information to answer questions 1–3.

Walter puts puzzles together as part of his occupational therapy due to a brain injury. He uses triangles to build new shapes.

1 How many triangles does Walter use to compose the trapezoid?



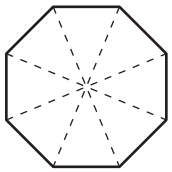
A. 2 triangles

B. 3 triangles

C. 4 triangles

D. 6 triangles

2 How many triangles does Walter use to compose the octagon?



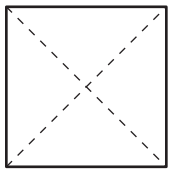
A. 3 triangles

B. 6 triangles

C. 8 triangles

D. 10 triangles

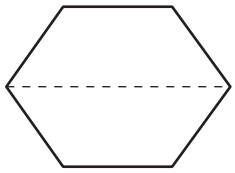
3 Walter uses four triangles to make the shape shown. What is the name of this shape?



A. heptagon **B.** pentagon

C. trapezoid **D.** square

4 Which shapes make up the banquet table?



A. 1 trapezoid and 1 triangle

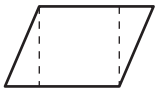
B. 2 trapezoids

C. 1 rhombus and 1 triangle

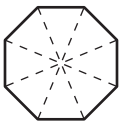
D. 1 triangle and 1 rectangle

5 Which figure is *not* made up of two right triangles and one square?

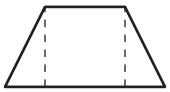
A.



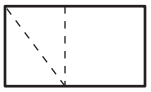
B.



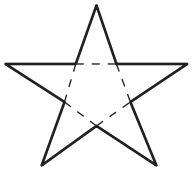
C.



D.



6 Sonja uses a computer to design a new logo in the shape of a five-pointed star. Which shape groupings does she use?



A. 1 hexagon and 6 triangles

B. 1 hexagon and 5 triangles

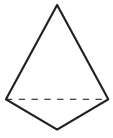
C. 1 pentagon and 6 triangles

D. 1 pentagon and 5 triangles

Use the information to answer questions 7–9.

Maggie wants to make a model of the Pentagon building using shapes.

7 One section of the model is shaped like the kite shown. Which shapes are used to make the kite?



A. 1 square and 1 triangle

B. 2 triangles

C. 1 triangle and 1 trapezoid

D. 1 rectangle and 1 triangle

8 Another section of the model is shaped like the rectangle shown. Which shapes are used to make a rectangle?

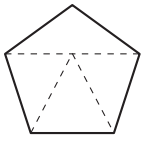
A. 1 triangle and 1 rhombus

B. 1 square and 1 kite

C. 1 square and 1 trapezoid

D. 2 squares

9 Maggie uses the base shown for the model. Which shapes are used to make the base?



A. 4 triangles

B. 2 trapezoids and 2 triangles

C. 3 triangles and 1 trapezoid

D. 1 rectangle and 3 triangles

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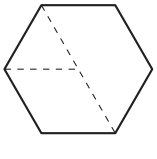
10 Which shapes make up the hexagon?



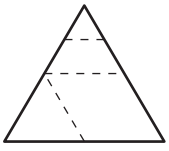
A. 1 triangle, 1 rhombus, and 1 parallelogram

B. 1 triangle, 1 trapezoid, and 1 parallelogram

C. 1 square, 1 rhombus, and 1 parallelogram

D. 1 triangle, 1 rhombus, and 1 rectangle

11 A piece of art in the shape of a large triangle was composed by combining several shapes.



Which shapes make up the piece of art?

A. 1 rhombus, 2 triangles, and 1 parallelogram

B. 1 trapezoid, 2 triangles, and 1 pentagon

C. 1 trapezoid, 2 triangles, and 1 parallelogram

D. 1 trapezoid, 2 triangles, and 1 rectangle

12 The pentagons and hexagons on the exterior of the soccer ball are each composed of two shapes.

Which shape do the hexagon and the pentagon have in common?

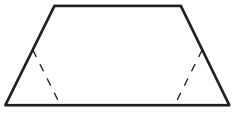
A. heptagon

B. parallelogram

C. square

D. trapezoid

13 Which shapes are used to make the trapezoid?



A. 1 hexagon and 2 triangles

B. 1 heptagon and 2 triangles

C. 1 octagon and 2 triangles

D. 1 trapezoid and 2 triangles

Practice 78 Understanding the Area Formula

3.MD.7, 3.MD.7.a, 3.MD.7.b, 3.MD.7.c

Area = length × width

1 A hockey goal is six feet wide and four feet tall. What is the area of the opening of a hockey goal?

A. 64 ft²

B. 46 ft²

C. 24 ft²

D. 10 ft²

2 A highway billboard is 15 meters wide and six meters high. What is the area of the billboard?

A. 12 m²

B. 21 m²

C. 42 m²

D. 90 m²

3 Ramone pours concrete as a base for his new shed. The concrete base is seven feet long and five feet wide. What is the area of the concrete base?

A. 12 ft²

B. 24 ft²

C. 35 ft²

D. 53 ft²

4 Pacita buys a rectangular pool covering for her in-ground pool. It is eight meters long and six meters wide. What is the area of the pool covering?

A. 56 m²

B. 48 m²

C. 28 m²

D. 14 m²

5 The bottom of Dawn's tent is five feet long and six feet wide. What is the area of the bottom of Dawn's tent?

A. 30 ft²

B. 25 ft²

C. 22 ft²

D. 11 ft²

6 Shaquana creates a mosaic using tiles that each have an area of one square centimeter. She uses 36 tiles. What is one possible size for the mosaic that Shaquana creates?

A. 10 cm wide by 3 cm long

B. 11 cm wide by 4 cm long

C. 12 cm wide by 3 cm long

D. 13 cm wide by 4 cm long

7 Matthew mops a dining hall after a banquet. The dining hall measures 11 yards long and eight yards wide. How many square yards does Matthew mop?

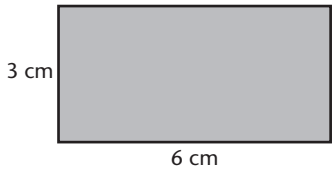
A. 19 yd²

B. 38 yd²

C. 88 yd²

D. 108 yd²

8 What is the area of the rectangle?



A. 24 cm²

B. 18 cm²

C. 12 cm²

D. 9 cm²

9 Chatan cleans the glass of the seahorse exhibit at the aquarium. The glass is four feet long and three feet high. How many square feet of glass does Chatan clean?

A. 21 ft²

B. 18 ft²

C. 14 ft²

D. 12 ft²

10 Pablo places a checkered tablecloth on a picnic table. There are 32 squares each measuring one square foot on the tablecloth. What is the size of the tablecloth?

A. 4 ft long by 6 ft wide

B. 4 ft long by 7 ft wide

C. 8 ft long by 4 ft wide

D. 8 ft long by 3 ft wide

11 Ulan mows his backyard, which is eight yards long and seven yards wide. How many square yards does Ulan mow?

A. 65 yd^2

B. 56 yd^2

C. 30 yd^2

D. 15 yd^2

12 Kendy buys a postcard that is four inches long and five inches wide. What is the area of the postcard?

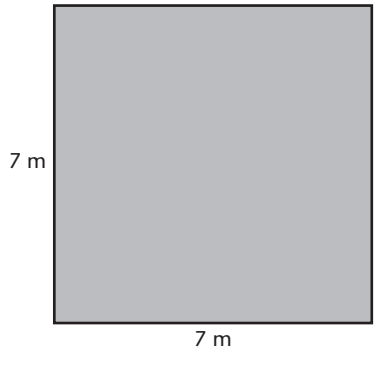
A. 22 $in.^2$

B. 20 $in.^2$

C. 18 $in.^2$

D. 9 $in.^2$

13 What is the area of the square?



A. 49 m^2

B. 35 m^2

C. 28 m^2

D. 14 m^2

14 Carrie uses 60 squares of fabric to make a quilt. Each square has an area of one square foot. What is one possible size of Carrie's quilt?

A. 10 ft long by 3 ft wide

B. 11 ft long by 4 ft wide

C. 12 ft long by 5 ft wide

D. 13 ft long by 5 ft wide

15 Kofi and Danika have a mural of their favorite memories painted to celebrate their 60th wedding anniversary. The mural has a length of five yards and a width of three yards. What is the area of the mural?

A. 8 yd^2

B. 11 yd^2

C. 12 yd^2

D. 15 yd^2

16 Idania receives a plaque in recognition of her volunteer service. It is 12 inches long and eight inches wide. What is the area of the plaque?

A. 104 $in.^2$

B. 96 $in.^2$

C. 69 $in.^2$

D. 40 $in.^2$

17 Koko buys a throw rug for her living room floor. The rug is 15 feet long and nine feet wide. What is the area of the rug?

A. 135 ft^2

B. 126 ft^2

C. 120 ft^2

D. 112 ft^2

18 A rectangular mirror is eight feet long and three feet wide. What is the area of the mirror?

A. 18 ft^2

B. 21 ft^2

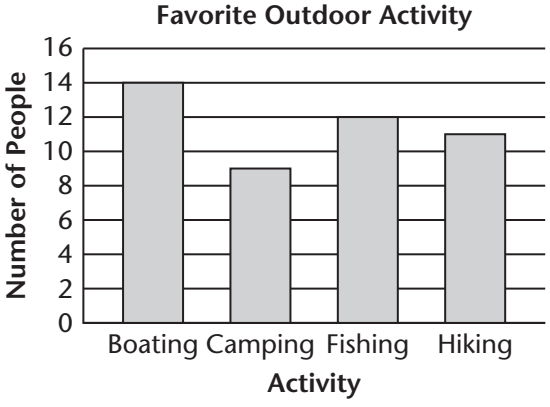
C. 24 ft^2

D. 32 ft^2

Practice 85 Picture Graphs and Bar Graphs

3.MD.3

Use the bar graph to answer questions 1–4.



1 What is the *most* popular outdoor activity?

A. Boating
B. Camping
C. Fishing
D. Hiking

2 What is the *least* popular outdoor activity?

A. Hiking
B. Fishing
C. Camping
D. Boating

3 How many more people like to go boating than hiking?

A. 25 people
B. 14 people
C. 4 people
D. 3 people

4 How many people like to go camping or fishing?

A. 9 people
B. 12 people
C. 21 people
D. 26 people

Use the picture graph to answer questions 5–8.

Preferred Method of Communication for People 65 Years Old and Older

Email	⬭ ⬭ ⬭ ⬭ ⬭
Mail	⬭ ⬭ ⬭ ⬭
Phone	⬭ ⬭ ⬭ ⬭ ⬭ ⬭ ⬭ ⬭
Text	⬭ ⬭

Key: Each ⬭ = 7 people

5 Which statement is *true*?

A. Email is more preferred than mail, but less preferred than phone.
B. Email is less preferred than mail, but more preferred than phone.
C. The total number of people who prefer to communicate by mail and text is 35.
D. Fewer people prefer to communicate by text and email combined than by mail.

6 How many fewer people prefer to communicate by text than by email?

A. 3 people **B.** 13 people
C. 21 people **D.** 91 people

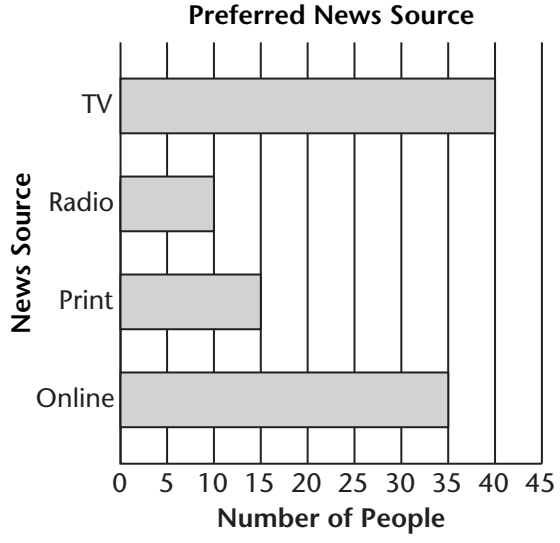
7 How many more people prefer to communicate by mail than by text?

A. 2 people **B.** 4 people
C. 7 people **D.** 14 people

8 How many people prefer to communicate by mail or email?

A. 70 people **B.** 63 people
C. 35 people **D.** 9 people

Use the bar graph to answer questions 9–13.



9 Which news source is preferred by 15 people?

A. Online **B.** Print

C. Radio **D.** TV

10 Which pair of news sources has a difference of 20 people between them?

A. TV and Print

B. TV and Radio

C. Online and Radio

D. Online and Print

11 What is the *second-most* preferred news source?

A. TV **B.** Radio

C. Print **D.** Online

12 What is the difference between the number of people who prefer TV and radio sources?

A. 15 people **B.** 20 people

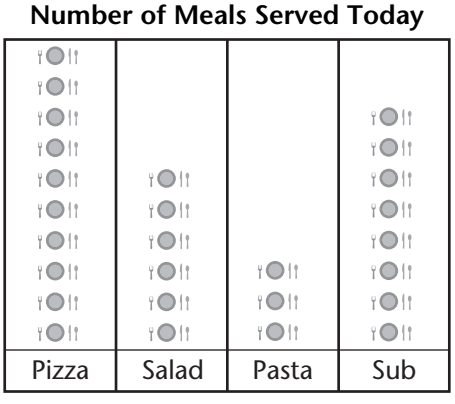
C. 25 people **D.** 30 people

13 How many people were questioned about their preferred news source?

A. 100 people **B.** 90 people

C. 85 people **D.** 75 people

Use the picture graph to answer questions 14–18.



14 How many more salads were served than pasta?

A. 3 salads **B.** 6 salads

C. 15 salads **D.** 20 salads

15 How many pizzas and subs were served?

A. 18 pizzas and subs

B. 40 pizzas and subs

C. 50 pizzas and subs

D. 90 pizzas and subs

16 How many more pizzas were served than salad and pasta combined?

A. 1 pizza **B.** 5 pizzas

C. 9 pizzas **D.** 10 pizzas

17 How many fewer pasta meals were served than subs?

A. 5 pasta meals

B. 8 pasta meals

C. 15 pasta meals

D. 25 pasta meals

18 Which pair of meals served has a difference of 10 meals between them?

A. subs and salads

B. pizza and salads

C. salads and pasta

D. subs and pasta