1 Kyle's ruler shows eighths of an inch. How many eighths make 1 whole inch?

A. 2

B. 4

C. 6

D. 8

2 Julia bought a set of plates for $82, a set of serving bowls for $57, a set of glasses for $52, and a box for flatware for $65. Which item would round to $60?

A. a set of plates

B. a set of serving bowls

C. a set of glasses

D. a box of flatware

3 Henry has 9 stacks of cups. If Henry has 27 cups, how many cups are in each stack? Which two equations could be used to find the answer?

A. $27 \times ? = 27$

B. $9 \times ? = 27$

C. $27 \div 9 = ?$

D. $9 \div ? = 27$

4 Michael wants to multiply $6 \times 3 \times 4$. First, he multiplies 6×3. What should his next step be?

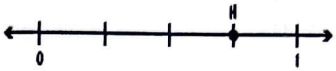
A. Multiply 18×4.

B. Multiply 18×3.

C. Multiply 6×4.

D. Multiply 3×4.

5 Where is Point *H* located on the number line?



A. $\frac{2}{3}$

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

C. $\frac{4}{5}$

D. $\frac{6}{7}$

6 Deanna has a pot with 350 mL of water. If she adds 150 mL into the pot, how much water is in the pot?

A. 400 mL

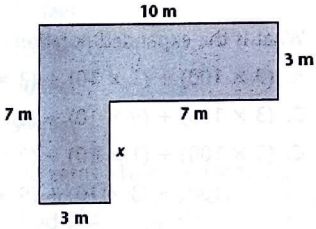
B. 450 mL

C. 500 mL

D. 520 mL

7 What is the area of the shape?

Area of a rectangle = $l \times w$



A. 42 square meters

B. 51 square meters

C. 79 square meters

D. 91 square meters

8 A food truck serves soft tacos on either flour or corn tortillas. Yesterday, they used 134 flour tortillas and 267 corn tortillas. How many tortillas were used in all?

A. 400

B. 401

C. 411

D. 413

9 Which measurement is the <u>most</u> reasonable estimate of the length of a cell phone?

A. 60 ft

B. 6 ft

C. 60 in.

D. 6 in.

10 Avery uses the Distributive Property to multiply 16×4.

$(10 + 6) \times 4 = (10 \times 4) + (_____)$

First, she multiplies 10×4. What should her next step be? Which of these fills in the blank?

A. 6×4

B. 4×10

C. 10×6

D. 16×4

11 What is the expanded notation for 319?

A. $(9 \times 100) + (1 \times 10) + (3 \times 1)$

B. $(3 \times 100) + (9 \times 10) + (1 \times 1)$

C. $(3 \times 100) + (1 \times 10) + (9 \times 1)$

D. $(1 \times 100) + (3 \times 10) + (9 \times 1)$

12 Which of these <u>best</u> describes the pattern?

23, 25, 27, 29, 31, 33

A. Divide by 2.

B. Multiply by 2.

C. Subtract 2.

D. Add 2.

13 Theo has a rectangular deck that is 8 feet long and 10 feet wide. What is the area of the deck?

Area of a rectangle $= l \times w$

A. 60 square feet

B. 72 square feet

C. 80 square feet

D. 86 square feet

14 Nathan loads 825 pounds of paving stones on a delivery truck. He unloads 365 pounds at his first stop. How many pounds does he have left to deliver?

A. 450 pounds

B. 460 pounds

C. 560 pounds

D. 580 pounds

15 Lucas needs to place 42 catalogs equally on 6 tables. How many catalogs should he place on each table?

A. 4

B. 5

C. 6

D. 7

16 Which of the following is about 20 centimeters in length?

A. bathtub

B. football field

C. notebook paper

D. couch

17 A box of nails weighs 453 grams. How much do 2 boxes of nails weigh?

A. 455 grams

B. 686 grams

C. 856 grams

D. 906 grams

18 Continue the pattern. What is the next equivalent fraction?

$\frac{2}{3}, \frac{6}{9}, ?$

A. $\frac{12}{27}$

B. $\frac{18}{27}$

C. $\frac{10}{14}$

D. $\frac{27}{18}$

19 Which equation does the model show?

A. 323 − 216 = ?

B. 438 − 223 = ?

C. 523 − 213 = ?

D. 538 − 215 = ?

20 Brenda works for a trucking company and tracks her mileage each week. She drove 537 miles this week. What is the value of the 5 in 537?

A. five hundreds

B. five thirties

C. five tens

D. five ones

21 Kaley buys 4 boxes of pens. There are 7 pens in a box. Which of the following shows how to use repeated addition to find the total number of pens?

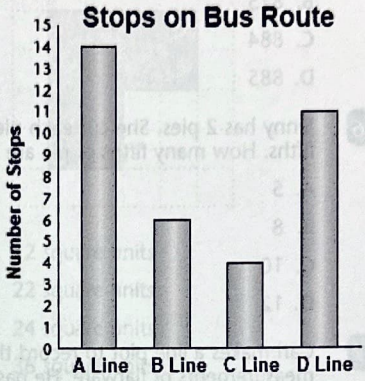
A. 4 + 4 + 4 + 4 = 16 pens

B. 7 + 7 + 7 + 7 = 28 pens

C. 4 + 7 + 4 + 7 + 4 + 7 = 33 pens

D. 7 + 7 + 7 + 7 + 7 + 7 = 42 pens

22 How many more stops are on the A Line than the C Line?



A. 3

B. 8

C. 10

D. 12

23 Henry power washed the sidewalk in front of an office building. He washed 56 feet of the sidewalk before lunch. After lunch, he washed another 34 feet to finish the job. How long is the sidewalk in front of the office building?

A. 80 feet

B. 83 feet

C. 90 feet

D. 91 feet

24 Gerald earns $10 per hour at a restaurant. On Tuesday, he worked 5 hours. He received $74 in tips. How much money did Gerald earn on Tuesday?

A. $76

B. $89

C. $114

D. $124

25 Solve. 248 + 637 =

A. 874

B. 875

C. 884

D. 885

26 Jenny has 2 pies. She cut each pie into fifths. How many fifths of pie are there?

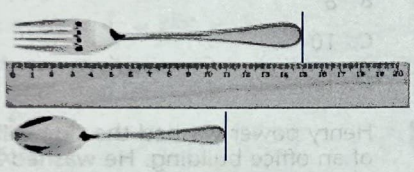
A. 5

B. 8

C. 10

D. 12

27 Carl makes a line plot to record the measurements of flatware. He has 8 of the forks and 6 of the spoons shown. How many *X*s will he place above the point labeled 15 cm?



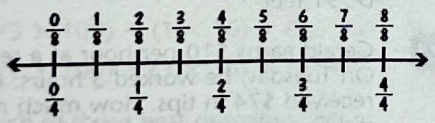
A. 6

B. 8

C. 11

D. 15

28 Which fraction is equivalent to $\frac{1}{4}$?



A. $\frac{8}{8}$

B. $\frac{6}{8}$

C. $\frac{4}{8}$

D. $\frac{2}{8}$

29 Vijay receives 9 boxes of folders. Each box has 20 folders in it. How many folders does he receive in all?

A. 180

B. 160

C. 140

D. 120

30 Jonathon is planning a company dinner. So far, 174 people have responded yes to the invitation. He expects more people to attend. Which number is greater than (>) 174?

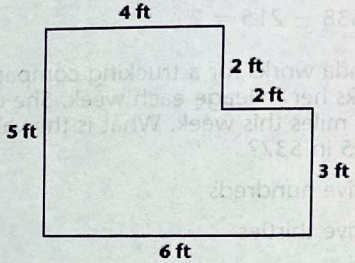
A. 104

B. 147

C. 170

D. 192

31 What is the perimeter of the shape?



A. 22 feet

B. 21 feet

C. 20 feet

D. 19 feet

32 Paula has an extension cord that is 25 feet long. Amber has an extension cord that is 9 feet long. How much longer is Paula's extension cord?

A. 11 ft

B. 12 ft

C. 16 ft

D. 19 ft

33 Luisa is building sections of a fence. She uses 5 boards in each section. Which fact family will help her determine how many sections she can make with 20 boards?

A. $5 + 20 = 25$; $20 + 5 = 25$; $25 - 5 = 20$; $25 - 20 = 5$

B. $5 + 15 = 20$; $15 + 5 = 20$; $20 - 5 = 15$; $20 - 15 = 5$

C. $2 \times 10 = 20$; $10 \times 2 = 20$; $20 \div 2 = 10$; $20 \div 10 = 2$

D. $5 \times 4 = 20$; $4 \times 5 = 20$; $20 \div 4 = 5$; $20 \div 5 = 4$

34 Solve. $35 + 26 + 12 =$

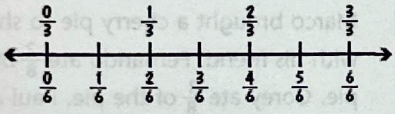
A. 61

B. 63

C. 73

D. 74

35 Which two fractions are less than $\frac{3}{6}$?



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

B. $\frac{5}{6}$

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

D. $\frac{2}{3}$

36 Which of the following sets of measurements could be the width of the same garage door?

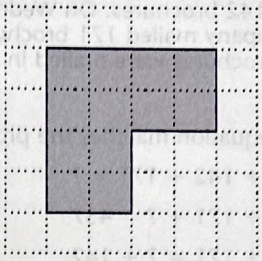
A. 3 meters; 30 centimeters

B. 3 meters; 300 centimeters

C. 300 meters; 30 centimeters

D. 300 meters; 3 centimeters

37 What is the area of the unshaded shape?



A. 12 square units

B. 22 square units

C. 24 square units

D. 36 square units

38 A small farm grows three types of fruit trees: apple, peach, and pear. There are 133 pear trees and 151 peach trees. There are 317 more apple trees than pear trees. How many fruit trees are there in all?

A. 468

B. 601

C. 734

D. 752

39 Brad looks at the clock when he gets on a train. If it takes 30 minutes to reach his stop, what time does he get off the train?

A. 2:03

B. 1:53

C. 1:43

D. 1:33

40 A company mailed 437 brochures on Monday. On Tuesday, the company mailed 142 brochures. On Wednesday, the company mailed 171 brochures. How many brochures were mailed in all?

Part A

Which equation matches the problem?

A. 437 + 142 + 171 = ?

B. 142 + 171 + ? = 437

C. 437 + 171 = ? + 142

D. ? + 171 = 142 + 437

Part B

What is the missing amount?

A. 124

B. 408

C. 740

D. 750

41 A door is 8 feet high and 3 feet wide. What are the measurements of the door in inches?

1 foot = 12 inches

A. 72 inches high, 36 inches wide

B. 96 inches high, 36 inches wide

C. 96 inches high, 48 inches wide

D. 108 inches high, 48 inches wide

42 A shape has a square base and 4 triangular faces. What is the shape?

A. cube

B. rectangular prism

C. square pyramid

D. triangular prism

43 In a call center, there are 8 desks in a row. How many desks are in 7 rows?

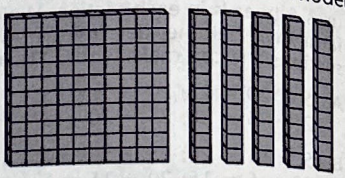
A. 15

B. 49

C. 56

D. 64

44 Which of these describes the model?



A. 160

B. 150

C. 140

D. 105

45 Which of these is a true statement?

A. A rectangle has 4 right angles, and all sides are of equal length.

B. A trapezoid has 4 right angles.

C. A square has exactly 1 pair of parallel sides.

D. A parallelogram has 2 pairs of parallel sides.

46 Marco brought a cherry pie to share with his friend. Fernando ate $\frac{2}{8}$ of the pie. Corey ate $\frac{1}{8}$ of the pie. Paul ate $\frac{3}{8}$ of the pie. Marco ate $\frac{1}{8}$ of the pie. Which statement is true?

A. Corey ate more pie than Fernando.

B. Fernando and Paul ate the same amount of pie.

C. Paul ate more pie than anyone else.

D. Marco ate less pie than Corey.

47 Elena has 32 custom orders to complete. If she can finish 4 orders a day, how many days will it take her to finish all the orders?

A. 9

B. 8

C. 7

D. 6

48 Which of these has 6 sides?

A. hexagon

B. pentagon

C. quadrilateral

D. triangle

Instructions: This chart can help you determine your strengths and weaknesses on the math skills assessed on the TABE 11 & 12 test. Use the Answers and Explanations starting on page 115 to check your answers to the test. Then, place an X next to the item numbers you missed. Review the lessons identified for any missed items.

Pretest Item	Correct/ Incorrect	For incorrect items, review the following lesson
1		Lesson 24
2		Lesson 5
3		Lesson 20
4		Lesson 16
5		Lesson 25
6		Lesson 39
7		Lesson 48
8		Lesson 8
9		Lesson 32
10		Lesson 17
11		Lesson 3
12		Lesson 23
13		Lesson 46
14		Lesson 11
15		Lesson 18
16		Lesson 34
17		Lesson 40
18		Lesson 27
19		Lesson 10
20		Lesson 1
21		Lesson 13
22		Lesson 41
23		Lesson 37
24		Lesson 22

Pretest Item	Correct/ Incorrect	For incorrect items, review the following lesson
25		Lesson 7
26		Lesson 28
27		Lesson 36
28		Lesson 26
29		Lesson 14
30		Lesson 4
31		Lesson 47
32		Lesson 35
33		Lesson 21
34		Lesson 6
35		Lesson 29
36		Lesson 33
37		Lesson 45
38		Lesson 12
39		Lesson 38
40		Lesson 9
41		Lesson 31
42		Lesson 44
43		Lesson 15
44		Lesson 2
45		Lesson 43
46		Lesson 30
47		Lesson 19
48		Lesson 42

Level E Pretest

1. D. 8 eighths make 1 whole. 2.G.3, 3.NF.1

2. B. The set of serving bowls is the only item that rounds to \$60. \$57 rounded to the nearest ten is \$60. 3.NBT.1

3. B, C. $9 \times ? = 27$ and $27 \div 9 = ?$ will provide the correct answer. There are 3 cups in each stack. 3.OA.4

4. A. After Michael multiplies the first two factors, he must multiply that product by the last factor. The product of the first factors is 18, so he should multiply 18 by 4. 3.OA.5

5. B. Each section of the number line is one fourth the distance from 0 to 1, and H is at the end of the 3rd section, so H is at $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$. 3.NF.2.a, 3.NF.2.b

6. C. $350 + 150 = 500$. 500 mL are in the pot. 3.MD.2

7. A. The shape can be divided into two rectangles. The top rectangle is 10 m × 3 m, so its area is 30 m^2. The bottom rectangle is 3 × 4, so its area is 12 m^2. Add the two areas together: 30 + 12 = 42 square meters. 3.G.2, 3.MD.7.c, 3.MD.7.d

8. B.

$$\begin{array}{r} {\scriptstyle 1\,1} \\ 134 \\ +267 \\ \hline 401 \end{array}$$

2.NBT.7, 3.NBT.2

9. D. A cell phone is shorter than a 12 inch ruler, so 6 in. is a reasonable length. 2.MD.3

10. A. Since Avery broke apart 16, her next step is to multiply 6 by 4. 3.OA.5

11. C. The expanded notation for 319 is $(3 \times 100) + (1 \times 10) + (9 \times 1)$. 2.NBT.3

12. D. The pattern is add 2. $23 + 2 = 25$, $25 + 2 = 27$, $27 + 2 = 29$ . . . 3.OA.9

13. C. $8 \times 10 = 80$ 3.MD.7.a, 3.MD.7.b

14. B.

$$\begin{array}{r} {\scriptstyle 7\,12} \\ \cancel{8}\cancel{2}5 \\ -365 \\ \hline 460 \end{array}$$

2.NBT.7, 3.NBT.2

15. D. $6 \times 7 = 42$; therefore, $42 \div 6 = 7$. Lucas should place 7 catalogs on each table. 3.OA.6

16. C. Notebook paper could be about 20 centimeters long. The other objects are too large. 2.MD.3

17. D. $453 + 453 = 906$ grams 3.MD.2

18. B. The rule for the pattern is multiply by $\frac{3}{3}$. The next equivalent fraction in the pattern is $\frac{6 \times 3}{9 \times 3} = \frac{18}{27}$. 3.NF.3.b

19. D. The model shows 5 hundreds, 3 tens, and 8 ones. 2 hundred, 1 ten, and 5 ones are subtracted. The matching equation is $538 - 215 = ?$ 2.NBT.7

20. A. $537 = 500 + 30 + 7$. The value of 5 in 537 is 5 hundreds. 2.NBT.1

21. B. There are 4 equal groups of 7. You can solve by adding $7 + 7 + 7 + 7$. 3.OA.1, 2.NBT.2

22. C. The A Line has 14 stops. The C Line has 4 stops. $14 - 4 = 10$. 2.MD.10, 3.MD.3

23. C. Add the two lengths to find the total: $56 + 34 = 90$ feet. 2.MD.6

24. D. Gerald earned 5×10, or \$50, in wages; $50 + 74 = 124$. He earned \$124 on Tuesday. 3.OA.8, 3.OA.3

25. D. (break apart method) $248 + 637 = 8$ hundreds + 7 tens + 15 ones $= 800 + 70 + 15 = 885$. 2.NBT.7, 3.NBT.2

26. C. 1 whole is $\frac{5}{5}$. $\frac{5}{5} + \frac{5}{5} = \frac{10}{5}$. 3.NF.3.c

27. B. There are 8 forks that measure 15 cm, so Carl should place eight *X*s above the point labeled "15 cm." 3.MD.4

28. D. The fraction on the number line that is directly above $\frac{1}{4}$ is $\frac{2}{8}$. 3.NF.3.a

29. A. Multiply 9 by 2 tens to get 18 tens. Multiply 18 by 10 to get 180. 3.NBT.3

30. D. $204 > 174$. The digit in the hundreds place in 204 is greater than the digit in the hundreds place in 174. 2.NBT.4

31. A. $4 + 2 + 2 + 3 + 6 + 5 = 22$ feet. 3.MD.8

32. C. The difference can be found by subtracting, $25 - 9 = 16$ ft. 2.MD.4

33. D. $20 \div 5 = 4$ because $4 \times 5 = 20$. $20 \div 4 = 5$ because $5 \times 4 = 20$. 3.OA.7

34. C. (break apart method) $35 + 26 + 12 = 6$ tens + 13 ones $= 60 + 13 = 73$. 2.NBT.6

35. A, C. The fractions $\frac{1}{6}$ and $\frac{1}{3}$ are to the left of $\frac{3}{6}$. 3.NF.3.d

36. B. The number of meters must be smaller than the number of centimeters. 1 meter = 100 centimeters. 3 meters = 300 centimeters. 2.MD.2

37. C. 24 square units cover the unshaded shape. 3.MD.5.b

38. C. To find the number of apple trees, add 133 + 317 = 450. Then add the number of all trees together: 450 + 133 + 151 = 734. 2.NBT.7, 2.OA.1

39. B. The clock shows 1:23. 23 + 30 = 53. 30 minutes after 1:23 is 1:53. 3.MD.1

40. Part A: A. Three parts are known, and the total is unknown.

Part B: D. 437 + 142 + 171 = 750. 2.NBT.7, 2.OA.1

41. B. To find the height, add 12 + 12 + 12 + 12 + 12 + 12 + 12 + 12 = 96 inches. To find the width, add 12 + 12 + 12 = 36 inches. 2.MD.2

42. C. A square pyramid has 1 square face and 4 triangular faces. 2.G.1

43. C. 7 rows of 8 make 56: 7 × 8 = 56. 3.OA.7

44. B. The model shows 1 hundred flat and 5 ten rods, or 150. 2.NBT.1.a, 2.NBT.1.b

45. D. A parallelogram has 2 pairs of parallel sides. 3.G.1

46. C. $\frac{3}{8} > \frac{1}{8}$ and $\frac{3}{8} > \frac{2}{8}$. When the denominators are the same, the fraction with the greater numerator is greater. 3.NF.3.d

47. B. 32 ÷ 4 = 8. It will take her 8 days. 3.OA.2

48. A. A hexagon has 6 sides. 2.G.1

Lesson 1 Place Value

(2.NBT.1)

1. C. 708 = 700 + 8. 708 has 7 hundreds and 8 ones but does not have any tens.
2. D. 235 = 200 + 30 + 5. The value of the digit 5 in 235 is 5 ones.
3. B. 564 = 500 + 60 + 4. 564 has 6 tens.
4. C. 219 = 200 + 10 + 9. The 2 in 219 is in the hundreds place.
5. A. 730 = 700 + 30. 730 has 7 hundreds and 3 tens but does not have any ones.
6. C. 260 = 200 + 60. The value of the underlined digit, 6, is 60.
7. B. The value change from 528 to 538 is 10.
8. D. Seven hundred thirty-two = 732.
9. B. Kay wrote the number 576 for 567 as she switched the order of the ones and tens place.
10. C. The place-value chart describing two hundred eighty-one is

Hundreds	Tens	Ones
2	8	1

Lesson 2 3-Digit Numbers

(2.NBT.1.a, 2.NBT.1.b)

1. C. 6 hundreds 3 tens = 63 tens.
2. B. The missing number is 600. 600 comes after 500 and before 700.
3. C. There are 10 bundles of ten in 100 + 6 bundles of ten in 60. 10 + 6 = 16 bundles of ten in 160.
4. B. The model shows 3 hundreds, or 300.
5. C. 30 + 4 = 34. There are 34 bundles of ten in the model representing 340.
6. B. There are 340 bundles of one in the model. 3(100) + 4(10) = 300 + 40 = 340.
7. C. 17 tens rods = 10 tens rods + 7 tens rods. 1(100) + 7(10) = 100 + 70.
8. B. 3 more tens rods would make another hundred.

Lesson 3 Standard Form and Expanded Form

(2.NBT.3)

1. C. The word form for 269 is two hundred sixty-nine.
2. D. The expanded notation for 723 is (7 × 100) + (2 × 10) + (3 × 1).
3. A. The standard form for nine hundred thirty-seven is 937.
4. D. Five hundred seventy-six is 576, and the digit in the hundreds place is 5.
5. A. The expanded notation of three hundred four is (3 × 100) + (0 × 10) + (4 × 1).
6. B. The missing number is 142, and the expanded notation is (1 × 100) + (4 × 10) + (2 × 1).
7. B. Another way to show the expanded form for 200 + 60 + 5 is (2 × 100) + (6 × 10) + (5 × 1).
8. D. The word form of 122 is one hundred twenty-two.
9. C. The expanded form of four hundred thirty-nine is 400 + 30 + 9. The standard form of four-hundred thirty-nine is 439.
10. D. Jack sold 985 doors during April through June.

Lesson 4 Compare 3-Digit Numbers

(2.NBT.4)

1. D. Both the hundreds and tens places have the same digit. Since 8 > 7, then 268 > 267.
2. A. The hundreds place in both 350 and 349 have the same digit. The digits in the tens place differ. That is the place-value position to compare. Since 4 < 5, then 349 is less than 350.

Contents

About TABE® 11 & 12 iv

About TABE® 11 & 12 Mathematics Test iv

Using *TABE® Tutor* v

Test-Taking Tips vi

Pretest vii

Unit 1 Whole Numbers

Lesson 1 Place Value 2
Lesson 2 3-Digit Numbers 4
Lesson 3 Standard Form and Expanded Form 6
Lesson 4 Compare 3-Digit Numbers 8
Lesson 5 Round to the Nearest Ten or Hundred 10
Unit 1 Review 12

Unit 2 Operations: Addition and Subtraction

Lesson 6 2-Digit Addition 14
Lesson 7 Use the Break-Apart Strategy to Add 3-Digit Numbers 16
Lesson 8 Use Place Value to Add 3-Digit Numbers 18
Lesson 9 Use Drawings and Equations to Add 20
Lesson 10 Use Models to Subtract 22
Lesson 11 Use Place Value to Subtract 3-Digit Numbers 24
Lesson 12 Use Drawings and Equations to Solve Two-Step Problems 26
Unit 2 Review 28

Unit 3 Operations: Multiplication and Division

Lesson 13 Multiplication as Repeated Addition 30
Lesson 14 Multiply 1-Digit Numbers by Multiples of 10 32
Lesson 15 Multiply Within 100 34
Lesson 16 Commutative and Associative Properties of Multiplication 36
Lesson 17 Use the Distributive Property to Multiply 38
Lesson 18 Division as Finding an Unknown Factor 40
Lesson 19 Division as Equal Sharing 42
Lesson 20 Fact Families 44
Lesson 21 Divide Within 100 46
Lesson 22 Multi-Step Word Problems 48
Lesson 23 Number Patterns 50
Unit 3 Review 52

Unit 4 Fractions

Lesson 24 Fractions of a Whole 54
Lesson 25 Fractions on a Number Line 56
Lesson 26 Equivalent Fractions 58
Lesson 27 Generate Equivalent Fractions 60
Lesson 28 Relate Fractions and Whole Numbers 62
Lesson 29 Compare Fractions 64
Lesson 30 Compare Fractions With the Same Numerator or Same Denominator 66
Unit 4 Review 68

Unit 5 Measurement and Data

Lesson 31 Measure Length in Inches and Feet 70
Lesson 32 Estimate Length in Inches and Feet 72
Lesson 33 Measure Length in Centimeters and Meters 74
Lesson 34 Estimate Length in Centimeters and Meters 76
Lesson 35 Measure and Compare Lengths 78
Lesson 36 Line Plots 80
Lesson 37 Add and Subtract Lengths 82
Lesson 38 Measure Time 84
Lesson 39 Measure Volume 86
Lesson 40 Measure Mass 88
Lesson 41 Picture Graphs and Bar Graphs 90
Unit 5 Review 92

Unit 6 Geometry

Lesson 42 2-Dimensional Shapes 94
Lesson 43 Quadrilaterals 96
Lesson 44 3-Dimensional Shapes 98
Lesson 45 Measure Area in Square Units 100
Lesson 46 Area of Rectangles 102
Lesson 47 Perimeter 104
Lesson 48 Decompose Shapes to Determine Area 106
Unit 6 Review 108
Practice Test 110
Answers and Explanations 115
Pretest Answer Sheet 131
Pretest Analysis Chart 133
Practice Test Answer Sheet 135
Practice Test Analysis Chart 137
Acknowledgments 139