Name: _____

Grade 3 Mathematics Florida Standards Assessments Warm-ups
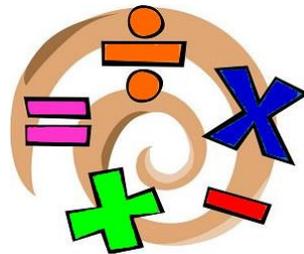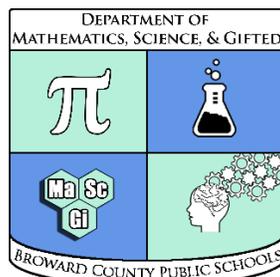
Grade 3 FSA Warm-Ups

Day 1

1. Alondra makes 4 necklaces. She uses 5 beads on each necklace. Which number sentence could be used to find the number of beads Alondra uses?

   A) $4 \times 5 = \square$

   B) $4+4+4+4 = \square$

   C) $5+5+5+5+5 = \square$

   D) $5+4 = \square$

2. Lucy and her mother made tacos. They put 2 tacos on each of 7 plates.

   Select all of the equations that show the total amount of tacos Lucy and her mother made.

   A) $2+7 = 9$

   B) $2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$

   C) $7 + 7 + 7 = 21$

   D) $2 \times 7 = 14$

   E) $7 - 2 = 5$

3. Laura wants to plant 28 flowers in her new garden. If she plants 7 flowers in each row. Which expression could be used to find the number of rows Laura will have?

   A) $28+7$

   B) $28-7$

   C) 28×7

   D) $28 \div 7$

4. Which three statements can be represented by the expression $24 \div 4$?

   A) Erica makes 24 mini pizzas. She gives away 4 mini pizzas.

   B) Masen has 24 marbles. He sorts them into groups of 4 marbles each.

   C) Deepak has 24 baseball cards. He puts them into piles containing 4 cards each.

   D) Kathy puts 24 stickers in 4 books.

   E) Kalani fills a new bookshelf with 24 books. She puts the same number of books on each of the 4 shelves.

5. Write the correct answer in the box below.
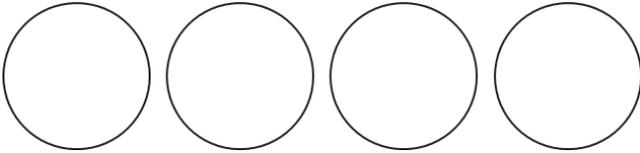
   $568 + \boxed{} = 612$

Grade 3 FSA Warm-Ups

6. Marie has to plant 24 flowers in the garden. Complete the table to show 3 different designs for how Marie could plant flowers.

	Numbers of Rows	**Number of Columns**
Design 1		
Design 2		
Design 3		

7. Tyrone took 16 pennies from his bank and put them in 4 equal stacks. How many pennies were in each stack? Show your work.

_____ pennies

8. Elizabeth has 12 horses on her farm. She puts an equal number of horses in each of 3 pens. How many horses are in each pen?

There are _____ horses in each pen.

9. Kaden has 4 containers. He puts 8 toy cars in each container. What is the total number of toy cars Kaden put in these containers?

_____ toy cars

10. Darius bakes 18 muffins for his friends. He gives each of his friends an equal number of muffins and has none left over.

Part A
Draw a picture to show one way that Darius could have divided the muffins and complete the sentence.

He gave muffins to _____ friends.

Part B

Could Darius have divided all of his muffins equally among 4 of his friends? Explain why or why not.

_____

_____

_____

_____

Grade 3 FSA Warm-Ups

Day 4

11. Mrs. Edwards baked 48 cookies. She packaged them into 8 bags. How many cookies were in each bag?
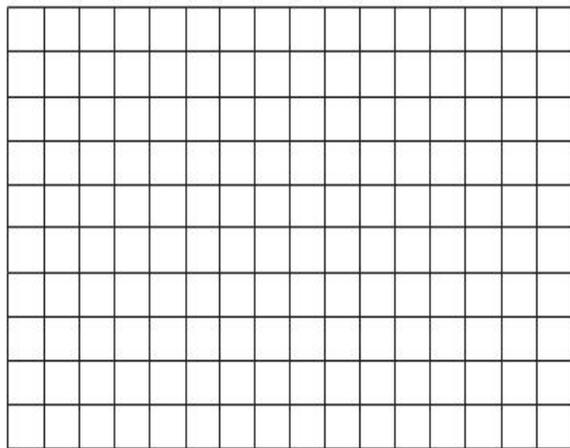
|_____| cookies

12. José buys 36 pounds of flour. Each bag weighs 9 pounds. How many bags of flour did José buy?

|_____| bags

13. Chris plants 40 pumpkin seeds in 8 equal rows.

Make an array to represent the problem.

How many seeds does Chris plant in each row?

|_____| seeds

Day 5

14. Marissa is buying a new rug. The rug is 8 feet long and 4 feet wide. What is the area of the rug?
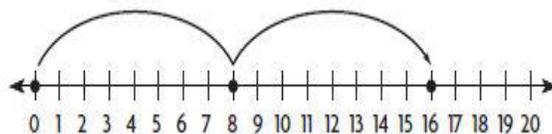
|_____| square feet

15. Mrs. Ruiz sorted spools of thread into 6 boxes. Each box holds 6 spools. How many spools of thread does Mrs. Ruiz have?

Use the model to solve. Explain how you solved the problem.

_____

_____

_____

_____

16. Mrs. Lindsay went hiking for two days. The first jump on the number line shows how many birds she saw the first day. She saw the same number of birds the next day.

Write the equation or expression for the model number line above.

|_____|

Grade 3 FSA Warm-Ups

Day 6

17. Select all of the situations that can be represented by $45 \div 9$.

   A) Mariko has 45 donuts and places an equal number of donuts into 9 bags.

   B) Mariko has 45 donuts and gives 9 of them to a friend.

   C) Mariko has 45 donuts and her friend gave her 9 more.

   D) Mariko has 9 donuts and needs to buy more donuts to give to her brother.

   E) Mariko shares 45 donuts with 9 friends.

18. Select all number sentences where the unknown factor 6 is?

   A) $4 \times \square = 32$

   B) $\square \times 6 = 36$

   C) $8 \times \square = 49$

   D) $\square \times 3 = 18$

   E) $4 \times \square = 12$

19. Circle the unknown factor and quotient.

   $$8 \times \begin{array}{c} 6 \\ 7 \\ 8 \end{array} = 48 \qquad \begin{array}{c} 6 \\ 7 \\ 8 \end{array} = 48 \div 8$$

Day 7

20. Devon has 80 books to pack in boxes. She packs 10 books in each box. How many boxes does she need?

   Write an equation using the letter n to stand for the unknown factor. Explain how to find the unknown factor.

   ☐ boxes

   _____

   _____

   _____

   _____

   _____

   _____

   _____

21. Does replacing the unknown number with 7 make each equation true? Select Yes or No for each equation.

	Yes	No
$6 \times \square = 36$	☐	☐
$8 \times \square = 64$	☐	☐
$49 \div \square = 7$	☐	☐
$54 \div \square = 6$	☐	☐

Grade 3 FSA Warm-Ups

22. Which number makes the equation true?

$$36 \div 4 = \square$$

A) 32

B) 16

C) 13

D) 9

23. Select all of the number sentences that have the same value as 7×5?

A) $7 + (3 + 2) = \square$

B) $7 \times (3 + 2) = \square$

C) $(5 \times 4) + (5 \times 3) = \square$

D) $(7 \times 2) + (7 \times 5) = \square$

E) $(5 \times 3) = \square$

24. Nadia has 4 sheets of stickers. There are 8 stickers on each sheet. She wrote this number sentence to represent the total number of stickers.

$$4 \times 8 = 32$$

Select a related number sentence that also represents the total number of stickers she has?

A) $8 + 4 = \square$

B) $4 + 4 + 4 + 4 = \square$

C) $8 \times 8 = \square$

D) $8 \times 4 = \square$

25. Two equations are shown.

$$7 \times 3 = 3 \times \square$$

$$\square + 5 = 5 + 8$$

Write in the missing value using the numbers from the box below to make the equations correct.

$$\boxed{\textbf{1, 2, 3, 5, 7, 8, 9, 13, 21}}$$

26. Match the numbers to the boxes to create a different expression that is equal to $(2 + 3) + 4$.

$$(2 + 3) + 4 = (\ \square\ +\ \square\ ) + \square$$

$$\boxed{\textbf{1, 2, 3, 4, 5, 6, 7, 8, 9}}$$

27. Use the correct numbers from the box below to create two multiplication equations that can be used to solve $30 \div 5$.

$$\boxed{5, \quad 6, \quad 30}$$

$$\square \times 5 = \square$$

$$5 \times \square = \square$$

Grade 3 FSA Warm-Ups

Day 10	**Day 11**

Day 10

28. There are 28 prizes in 4 equal rows. How many prizes are in each row?

   Complete each equation to represent the problem.

   $4 \times \boxed{} = 28$

   $28 \div 4 = \boxed{}$

   $\boxed{}$ prizes

29. Select a number to complete each equation.

0	1	7

   $7 \div 1 = \boxed{}$

   $7 \div 7 = \boxed{}$

   $0 \div 7 = \boxed{}$

30. Create a multiplication equation or expression you could use to solve $16 \div 2$.

   $\boxed{}$

Day 11

31. Tasha is doing an art project with square tiles. She needs to figure out how many tiles she will need. This picture shows her design. Tasha thinks:

   This part is 9 × 3 tiles.

   This part is 3 × 9 tiles.
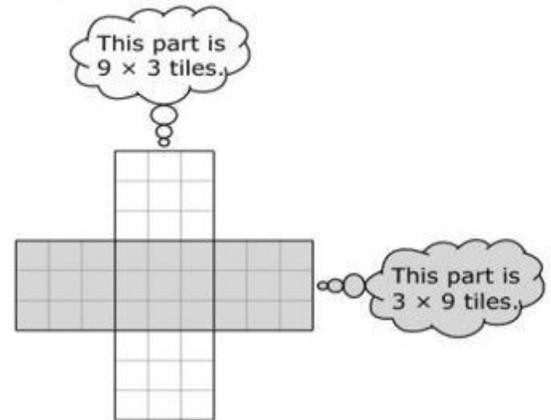
   Tasha says, "I need (9 x 3) + (3 x 9) = 27 + 27 = 54 tiles to make the design." Which statement explains why Tasha is not correct?
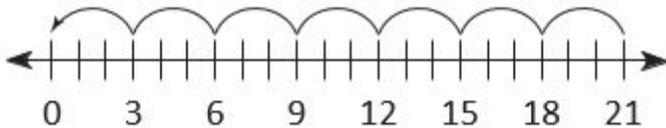
   A) 27 + 27 does not equals 54.

   B) (3 x 9) does not equal (9 x 3).

   C) Tasha multiplied 9 x 3 incorrectly.

   D) Tasha included the 9 squares in the middle twice.

32. Circle numbers to complete the related facts.

7	
9	
64	
80	

   $\times 8 = 72$ $72 \div$

7
8
9
64

   $= 8$

Grade 3 FSA Warm-Ups

33. Bella made $21 selling bracelets. She wants to know how many bracelets she sold. Bella used this number line.

0   3   6   9   12   15   18   21

Write the division equation is represented by the number line.

34. Complete the chart to show the products.

X					
9	27	36	45	54	

35. Select all factor pairs that equal 48.

A)   3 and 9

B)   4 and 12

C)   6 and 8

D)   6 and 9

E)   9 and 4

36. Complete the table to find the quotients.

Problem	Quotient
$16 \div 4$	
$54 \div 6$	
$56 \div 7$	

37. Circle the symbol that makes the multiplication sentence true.

9×6 $\boxed{\begin{array}{c} > \\ < \\ = \end{array}}$ $3 \times 3 \times 9$

38. Select all equations that represent the array. Mark all that apply.

A) $3 \times 5 = \square$

B) $2 \times \square = 12$

C) $\square \div 3 = 5$

D) $5 \times \square = 15$

E) $12 \div 3 = \square$

Grade 3 FSA Warm-Ups

Day 14

39. Seth collected 24 toy cars. Then he gave away 3 toy cars to each of his 5 friends. How many toy cars does Seth have left? Explain how you solved the problem.

[____] cars

_____

_____

_____

_____

_____

40. Mrs. Garcia puts 57 cans on a shelf. She puts an equal number of cans in each of 9 rows and puts 3 cans in the last row. How many cans does she put in each of the 9 equal rows?

Circle the equation that can be used to solve the problem.

$(3 \times c) + 9 = 57$

$(9 \times c) + 3 = 57$

$(57 \div 9) + 3 = c$

Solve the problem.

[____] cans

Day 15

41. Victor drew lines to divide a trapezoid into equal parts that represent $\frac{1}{3}$ of the whole area. Draw lines to show how Victor divided the trapezoid.
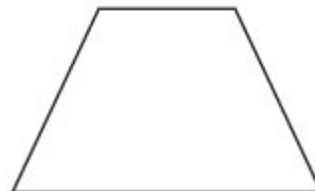
42. Eleni bought 3 packs of crayons. She then found 3 crayons in her desk. Eleni now has 24 crayons. How many crayons were in each pack that she bought? Explain how you solved the problem.

[____] crayons

_____

_____

_____

_____

_____

_____

_____

Grade 3 FSA Warm-Ups

43. Monday, the bookstore sold 65 books. On Tuesday, the bookstore sold 115 books. The bookstore must sell 600 books by Friday. Write an equation that can be used to find how many more books, *b*, the bookstore must sell.

Solve the equation and write your answer in the box below.

____ books

44. Brian is going camping in 2 weeks and 2 days. Which equation can be used to find the number of days until Brian goes camping?

A) $2 + 7 - 2 = c; c = 11$ days

B) $2 \times 7 - 2 = c; c = 12$ days

C) $2 \times 5 + 2 = c; c = 12$ days

D) $2 \times 7 + 2 = c; c = 16$ days

45. Tim says the rule for the pattern shown in the table is "Add 3." Is his rule correct? Explain how you know.

Packages	1	2	3	4	5
Markers	4	8	12	16	20

_____

_____

_____

_____

_____

_____

_____

46. Helene is completing the table below. If she selects an odd number to be multiplied by each factor, would her answer be even or odd? Write *even* or *odd* to describe each product.

X	1	2	3	4	5
odd number					

Grade 3 FSA Warm-Ups

47. What unknown numbers complete the pattern on the number line?
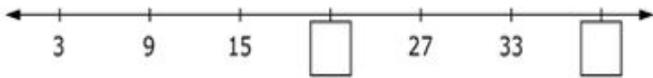
48. Carol plays a ball game. She gets 7 points each time her ball hits a target. If she hits the target at least 5 times in a row, she gets an extra 25 points.

What is the total number of points Carol gets if she hits the target 5 times in a row?

```
┌──────────────┐
│              │  point(s)
└──────────────┘
```

49. Etta buys some ribbon and cuts it into 7 pieces that are the same length. Each piece is 9 inches long. How long was the ribbon that Etta bought?

```
┌──────────────┐
│              │ inches
└──────────────┘
```

50. Heather's puppy weighs 23 pounds. He has been gaining 3 pounds every month as he grows. If this pattern continues, how much will the puppy weigh 5 months from now?

```
┌──────────────┐
│              │  pounds
└──────────────┘
```

51. Lisa completed the table to describe the product of a mystery one-digit number and each factor in the table.

×	1	2	3	4	5
?	even	even	even	even	even

Part A

Give all of the possible numbers that could be Lisa's mystery one-digit number.

_____

_____

_____

Part B

Explain how you know that you have selected all of the correct possibilities.

_____

_____

_____

_____

Grade 3 FSA Warm-Ups

Day 20	**Day 21**

Day 20

52. What value is 948 rounded to the nearest 100? Write your answer in the box below.

53. A. Round 754 to the nearest hundred.

    B. Round 754 to the nearest ten.

54. Round each number to the nearest 10.

Number	Rounded to the nearest 10
351	
356	
364	

Day 21

55. There are 486 books in the classroom library. Complete the chart to show 486 rounded to the nearest 10.

Hundreds	Tens	Ones

56. Show how you would estimate the sum of each number sentence below. Then solve.

$393 + 225 =$

$353 + 328 =$

$481 + 215 =$

$309 + 335 =$

Grade 3 FSA Warm-Ups

Day 22

57. Alexandra and Erika collect shells. The tables show the kinds of shells they collected.

Alexandra's Shells	
Shell	**Number of Shells**
Scallop	36
Jingle	95
Clam	115

Erika's Shells	
Shell	**Number of Shells**
Scallop	82
Clam	108
Whelk	28

Part A

Who collected more shells? About how many more did she collect? Explain how you solved the problem.

[ ] collected about [ ] more shells.

_____

_____

_____

_____

_____

Part B

Alexandra and Erika have the greatest number of what kind of shell? How many shells of that kind do they have in all?

They have the greatest number of _____.

There are _____ in all of this kind of shell.

58. What is the sum of 245, 212, and 286? Write your answer in the box below.

[ ]

59. Fran checked the time on her watch after she finished her daily run.

Select the time that Fran finished running. Select all that apply.

A) 14 minutes before nine

B) eight forty-six

C) quarter to nine

D) nine forty-six

E) nine forty

Grade 3 FSA Warm-Ups

<table>
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Day 23

60. Daniel has 402 pieces in a building set. He uses 186 pieces to build a house. How many pieces does he have left?

$\boxed{}$ pieces

61. Janna buys 2 bags of dog food for her dogs. One bag weighs 37 pounds. The other bag weighs 15 pounds. How many pounds do both bags weigh? Explain how you solved the problem.

$\boxed{}$ pounds

_____

_____

_____

_____

_____

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Day 24

62. Alexandra has 78 e-mails in her inbox. She deletes 47 e-mails. How many e-mails are left in her inbox? Draw jumps and label the number line to show your thinking.

78

$\boxed{}$ e-mails

63. Luke solves the following problem.

$$352 - 148$$

Part A

He says the difference is 214. Explain the mistake Luke made.

_____

_____

_____

_____

_____

Part B

Write the correct answer in the box.

$352 - 148 = \boxed{}$

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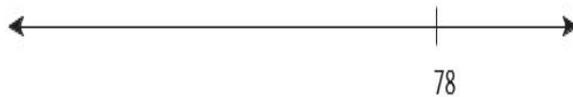
Grade 3 FSA Warm-Ups

<table>
<tr><td align="center">**Day 25**</td><td align="center">**Day 26**</td></tr>
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Day 25

64. Use the table for Parts A, B, and C.

Susie's Sweater Shop	
Month	**Number of Sweaters Sold**
January	402
February	298
March	171

Part A: The table shows the number of sweaters sold online in three months. How many sweaters were sold in January and February?

sweaters

Part B: How many more sweaters were sold in January than in March?

sweaters

Part C: How many more sweaters were sold in February and March than in January?

sweaters

65. Select all expressions that are equal to 427.

A) $202 + 225$

B) $311 + 126$

C) $466 - 39$

D) $538 - 91$

E) $730 - 303$

Day 26

66. Select all expressions that have a product of 360.

A) 3×70

B) 4×90

C) 5×60

D) 6×60

E) 9×40

67. Determine which equations show the Distributive Property. Select all that apply.

A) 5 x 60 = 5 x (20 + 40)

B) 8 x 20 = 8 x (10 + 10)

C) 9 x (4 + 3) = 9 x 7

D) 30 x 6 = 6 x 30

E) 4 x 3 x 5 = 4 x (5 x 3)

68. Each train can carry 20 cars. Use the number line to find how many cars 6 trains can carry.
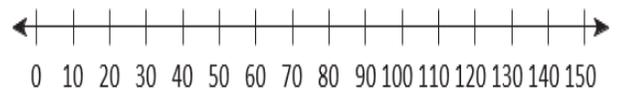
cars

Grade 3 FSA Warm-Ups

69. A store has 30 boxes of melons. Each box holds 4 bags. Each bag holds 2 melons. What is the total number of melons in the store?

_____ melons

70. A printer prints newsletters for different groups each month. Which group uses the greatest number of pieces of paper?

Group	Number of pieces of paper in newsletter	Number of copies of newsletter printed
Garden Ladies	5	70
Book Lovers Club	6	80
Model Train Fans	7	60
Travel Club	8	50

_____

71. Samantha made this multiplication model. Write the equation that represents the model.
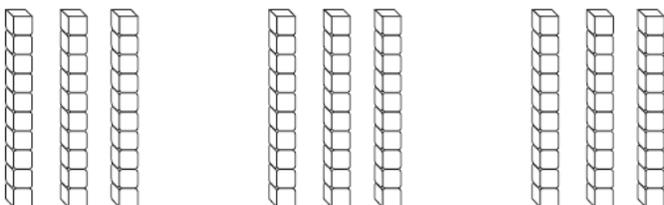
72. Celina has 10 boxes of markers. Each box contains 7 markers. How many markers does Celina have in total?

_____ markers

73. What fraction names the shaded part?
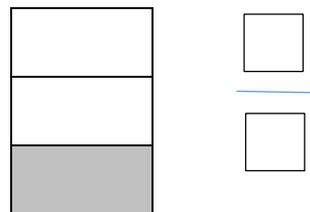
Explain how you know how to write the fraction.

_____

_____

_____

74. Gary paints some shapes.
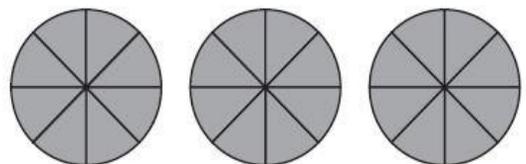
Select one number from each column to show a fraction greater than 1 that names the parts Gary painted.

Numerator	Denominator
○ 3	○ 3
○ 4	○ 4
○ 8	○ 8
○ 24	○ 24

Grade 3 FSA Warm-Ups

Day 29

75. Select a numerator and a denominator from each column for the fraction that names the shaded part of the shape.

Numerator	Denominator
○ 2	○ 3
○ 3	○ 5
○ 5	○ 6
○ 6	○ 8
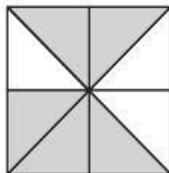
76. Omar shaded a model to show the part of the lawn he finished mowing. What fraction names the shaded part? Explain how to write the fraction.

_____

_____

_____

_____

_____
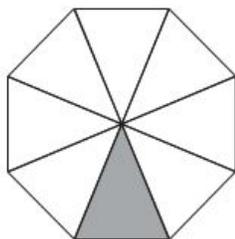
77. Each model shown has been shaded to represent a fraction. Circle the model that shows $\frac{2}{3}$ shaded?
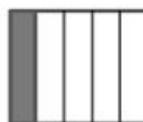
78. Each model shown has been shaded to represent a fraction. Circle the model that shows $\frac{3}{4}$ shaded?
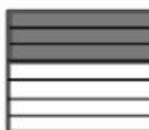
Grade 3 FSA Warm-Ups

79. Write each fraction on the number line in its correct location.

$$\frac{4}{4} \qquad \frac{1}{4} \qquad \frac{4}{1} \qquad \frac{2}{4}$$
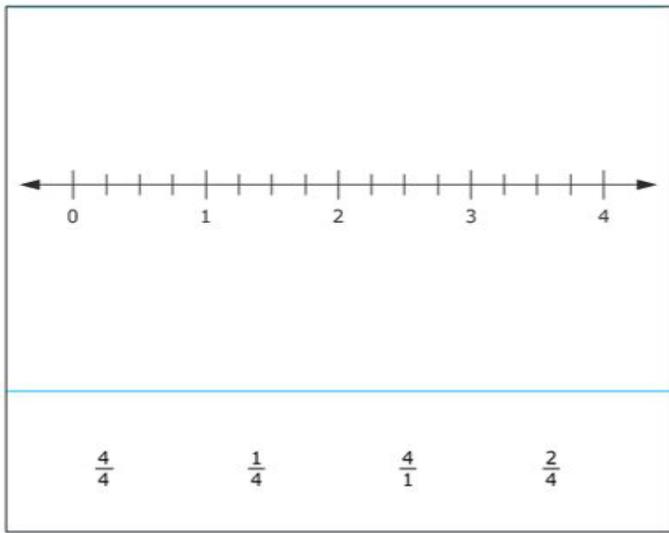
80. Using the model below, color in the parts to shade $\frac{1}{3}$ of the whole.

81. What fraction names point A on the number line?
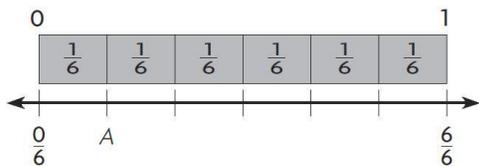
82. Robert says, "When comparing two fractions with a numerator of 1, the fraction with the larger denominator is greater."

    Write each fraction in the correct location on the number line to find out if Robert's statement is true.

$$\frac{1}{4} \qquad \frac{1}{2} \qquad \frac{1}{8}$$
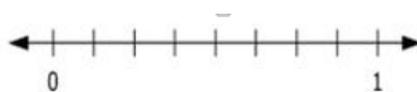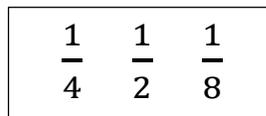
Is Robert's statement true?

☐ Yes

☐ No

83. Select all fractions below that make this comparison true.

$$\frac{2}{8} < \square$$

A) $\frac{3}{8}$

B) $\frac{2}{6}$

C) $\frac{2}{4}$

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

E) $\frac{1}{8}$

Grade 3 FSA Warm-Ups

Day 31

84. What fraction names point A on the number line?

$$\frac{\boxed{}}{\boxed{}}$$
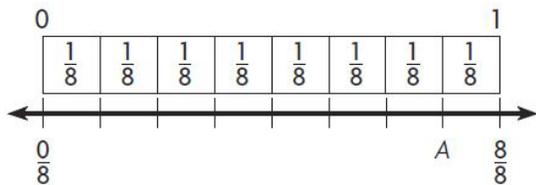
85. Divide the fraction bar into 6 equal parts. Then shade 4 parts.
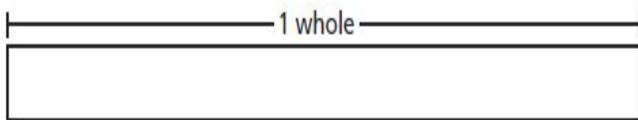
What fraction does the shaded fraction bar represent?

$$\frac{\boxed{}}{\boxed{}}$$

Show the fraction as the sum of unit fractions.

86. Locate and draw point F on the number line to represent $\frac{2}{4}$.

87. Maria drew a number line divided into 8 equal parts. What fraction names point B on the number line?

$$\frac{\boxed{}}{\boxed{}}$$
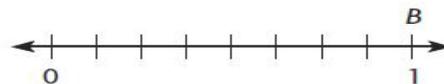
88. Circle the number line that is divided into fourths?
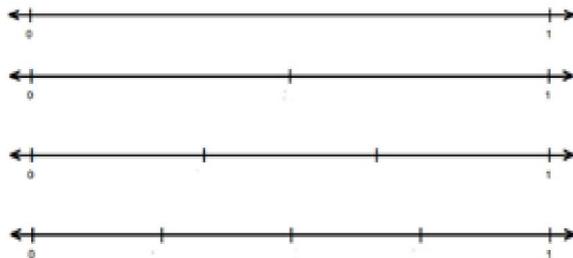
89. What fraction is represented by the total length marked on the number line?

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

B) $\frac{4}{6}$

C) $1\frac{1}{2}$

D) $1\frac{2}{3}$

Grade 3 FSA Warm-Ups

90. Write the whole number that is equal to each fraction. Complete the table shown.

Fraction	$\frac{2}{2}$	$\frac{6}{2}$	$\frac{4}{2}$	$\frac{8}{2}$
Whole	__	__	__	__

91. Chun lives $\frac{3}{8}$ mile from school. Gail lives $\frac{5}{8}$ mile from school.

    Use the fractions and symbols provided, making an inequality that shows which distance is longer.

    | $\frac{3}{8}$ | | $\frac{5}{8}$ | | < | | > |

    ☐ ◯ ☐

92. Cora measures the heights of three plants. Draw a line to match each height to the word that describes its place in the order of heights.

    $\frac{4}{6}$ foot •   • least

    $\frac{4}{4}$ foot •   • between

    $\frac{4}{8}$ foot •   • greatest

93. Shade in the regions in the model to show a fraction less than $\frac{3}{6}$. Then write the fraction.

    $\dfrac{\boxed{}}{\boxed{}}$

94. Select the correct fractions to label each of the four points on the number line.

    ☐ ☐ ☐ ☐
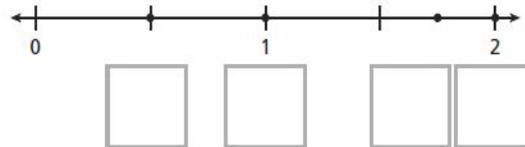
$\frac{1}{2}$	$\frac{9}{3}$
$\frac{6}{6}$	$\frac{12}{6}$
$\frac{1}{3}$	$\frac{7}{4}$

95. Danielle drew a model to show equivalent fractions.

    Use the model to complete the number sentence.

    $\dfrac{1}{2} = \dfrac{\boxed{}}{\boxed{}} = \dfrac{\boxed{}}{\boxed{}}$

Grade 3 FSA Warm-Ups

Day 33

96. Sam went on a sailboat ride. The ride lasted $\frac{3}{4}$ hour.

What fraction is equivalent to $\frac{3}{4}$?

$$\frac{\square}{\square}$$

97. Tom rode his horse for $\frac{4}{6}$ mile. Liz rode her horse for an equal distance. What is an equivalent fraction that describes how far Liz rode? Use the models to show your work.
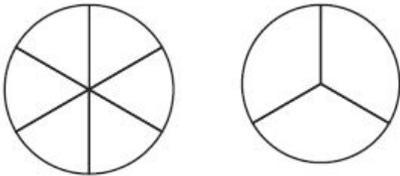
Liz rode $\frac{\square}{\square}$ nile.

98. Write the letter of each triangle where it belongs in the table. Some triangles might belong in both parts of the table. Some triangles might not belong in either part.

Has 1 Right Angle	Has at Least 2 Sides of Equal Length
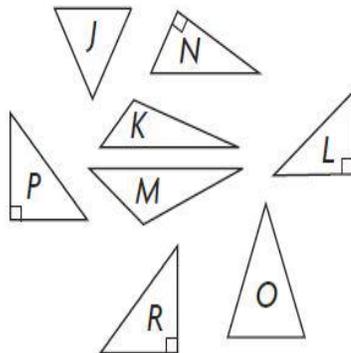
99. Alex has the same chores every day. The length of time, in minutes, of each chore is shown. He starts at 10:00 a.m. and completes one chore immediately after the other. Complete the table to show what time he will start and finish each chore.

Chore	Length of Time it Takes	Start time	End Time
Gardening	16 minutes	10:00 am	
Sweeping	5 minutes		
Dusting	13 minutes		

100. A chicken dish needs to bake in the oven for 35 minutes. The dish needs to cool for at least 8 minutes before serving. Scott puts the chicken dish in the oven at 5:14 P.M.

Can Scott serve the dish at 5:51 P.M.? Explain how you know.

_____
_____
_____
_____
_____
_____
_____

Grade 3 FSA Warm-Ups

Day 34

101. Anthony's family went out to dinner. They left at 5:05 P.M. They returned home 47 minutes later.

What time did Anthony's family get home?

☐ : ☐ ☐ P.M.

102. Gina and Mark have similar containers filled with different amounts of water as shown.
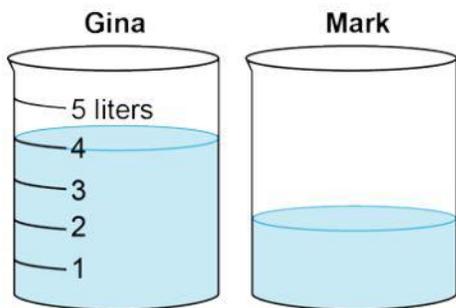
Gina's container has 4 liters of water. About how much water, in liters, does Mark's container have?

☐ liters

103. A deli makes its own salad dressing. Each bottle has 3 grams of spices. How many grams of spices are needed to make 8 bottles?

☐ grams of spices

104. Amy has 30 grams of flour. She puts 5 grams of flour in each pot of potato soup that she makes. How many pots of potato soup can Amy make?

A) 3 pots

B) 5 pots

C) 6 pots

D) 15 pots

105. Select all of the objects with a mass greater than 1 kilogram.

A) bicycle

B) pen

C) eraser

D) chair

E) spiral notebook

106. Which shapes show equal parts?
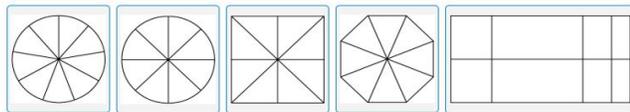
Grade 3 FSA Warm-Ups

107. The Pet Shop keeps track of the number of fish it has for sale. The frequency table shows how many fish are in each tank.

Fish in Tanks	
Tank	Number of Fish
Tank 1	16
Tank 2	9
Tank 3	12

Part A
Use the data in the table to complete the picture graph.

Tank 1	◯◯

Key: Each ◯ = 2 fish.
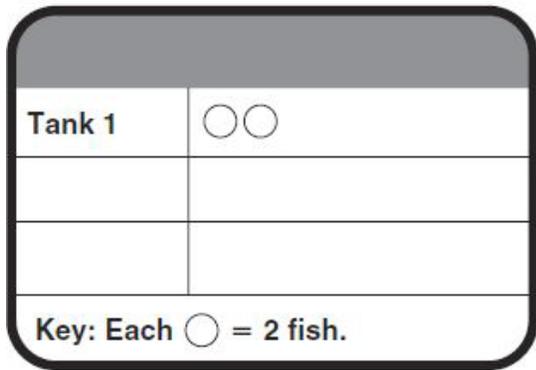
Part B
How many symbols did you draw for Tank 2?

☐ symbols

Explain

_____

_____

_____

_____

108. Use the frequency table from question 107 to solve the following problem.

Each tank can hold up to 20 fish. How many more fish can the Pet Shop put in the 3 tanks?

A) 60 fish

B) 33 fish

C) 23 fish

D) 20 fish

109. John surveys his classmates about their favorite foods. The result is shown in the table below.

Favorite Food	
Pizza	6
Salad	5
Hamburger	2

Part A: Use the table to complete the bar graph.
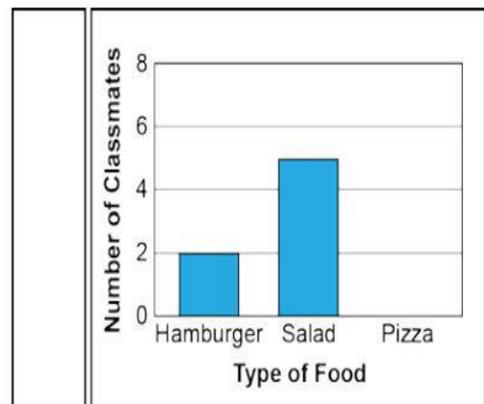
Part B: How many more classmates prefer pizza over hamburger?

☐ classmates

Grade 3 FSA Warm-Ups

Day 36

110. Vanesa surveys her classmates about their favorite foods. The result is shown in the table below.

Favorite Food	
Hot Dogs	6
Pizza	9
Salad	7
Chicken	8
Fish	3

Part A: Create a bar graph that displays the data from the table above.
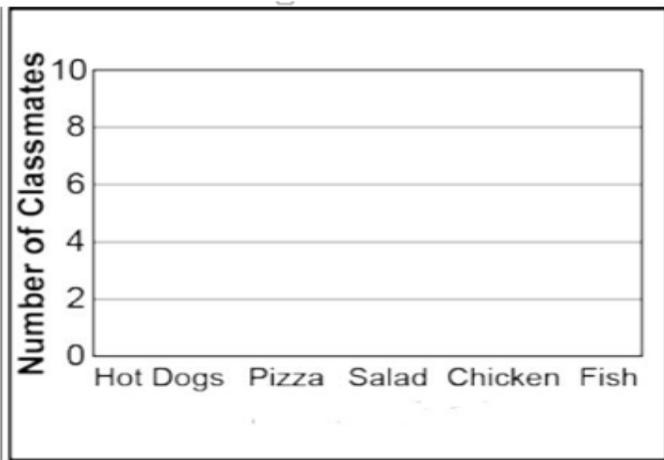
Part B: Solve the problem using the data above.
How many fewer classmates prefer fish than pizza?

☐ classmates

111. Robin collected shells during her vacation. She measured the length of each shell to the nearest inch and recorded the data in a line plot.
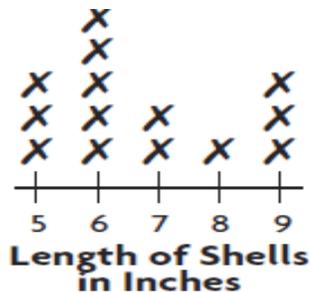
Part A: How many shells were 6 inches long or longer?

☐ shells

Part B: How many more shells did that were 5 inches long than were 8 inches long?

☐ shells

112. A pencil is shown.
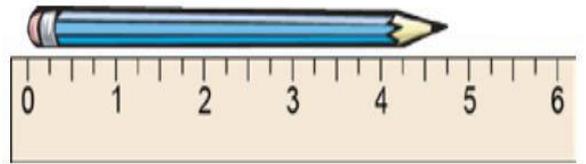
Part A

What is the length of the pencil to the nearest quarter of an inch

☐ inches

Part B
What is the length of the pencil to the nearest whole inch?

☐ inches

113. Divide each shape into the number of equal parts shown. Then write the fraction that describes each part of the whole.

2 equal parts	4 equal parts	6 equal parts

_____   _____   _____
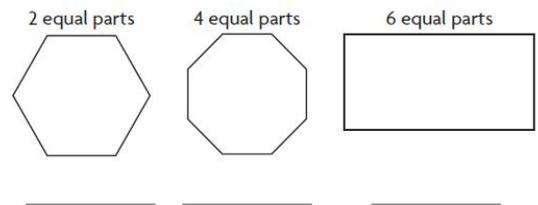
Grade 3 FSA Warm-Ups

114. Write the area of the figure in the box next to each shape.

[ ] square units

[ ] square units
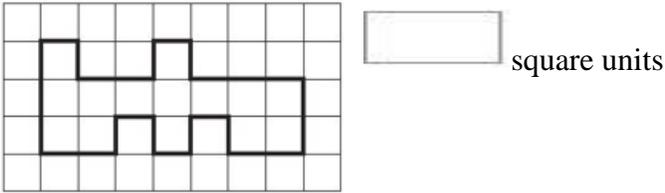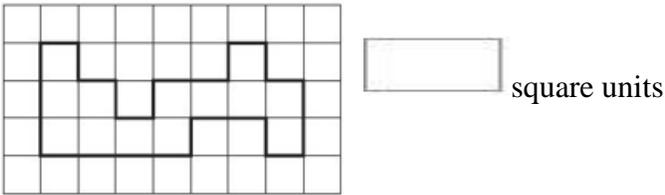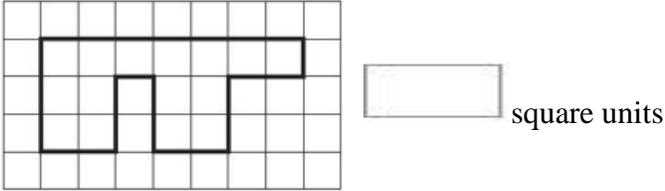
[ ] square units

115. What is the perimeter and area of this figure?
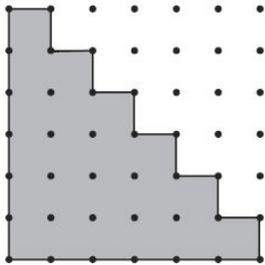
Perimeter [ ] units

Area [ ] square units

Explain how you found the answer.

_____

_____

116. How many squares need to be added to this figure so that it has the same area as a square with a side that measures 5 units?
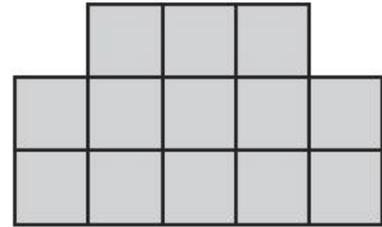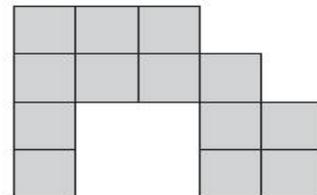
[ ] squares

117. Alex counts the tiles on his floor. What measurement does Alex find?

A) The perimeter of the floor

B) The area of the floor

C) The width of one tile

D) The cost of the floor

118. What is the area of the figure shown? Each unit square is 1 square meter.

[ ] square meters

Grade 3 FSA Warm-Ups

Day 38

119. Steve makes a banner with an area of 8 square feet. On the grid, draw all possible rectangles with an area of 8 square feet. Label the lengths of each side of all rectangle drawn. Write the total perimeter on the inside of each rectangle.
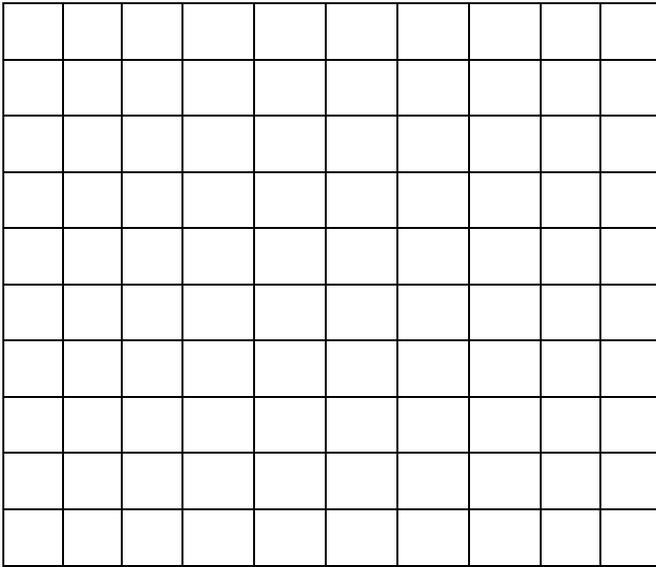
Compare the perimeters of the banners. What do you notice about their shapes?

_____
_____
_____
_____

120. A park is shown.

11 miles

4 miles
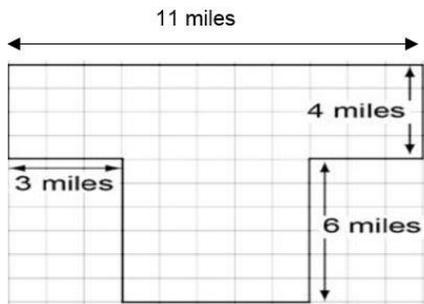
3 miles

6 miles

What is the area of the park in square miles?

[ ] square miles

121. Brady is placing square tiles on the floor of the kitchen. Each unit square is 1 square foot.
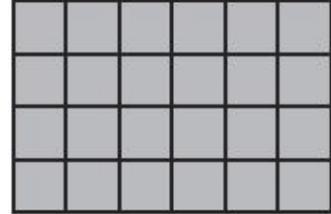
Select all of the equations that Brady can use to find the area of the kitchen floor.

A) $4 \times 6 = 24$

B) $4 + 4 + 4 + 4 + 4 = 20$

C) $4 + 6 + 4 + 6 = 20$

D) $6 + 6 + 6 + 6 = 24$

E) $4 \times 5 = 20$

F) $6 \times 4 = 24$

122. Keisha draws a sketch of her living room on grid paper. Each unit square is 1 square meter. Write and solve a multiplication equation that can be used to find the area of the living room in square meters

[ ]
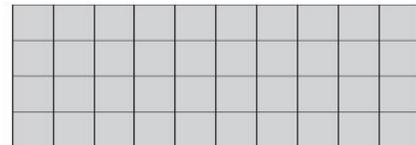
[ ] square meters

Grade 3 FSA Warm-Ups

Day 39

123. Raul makes a sign for the school fair. It has a length of 9 inches and a width of 8 inches. What is the area of the sign?
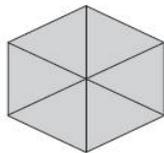
Write an equation to solve the problem.

Area of the sign: ☐ square inches

124. Lydia is knitting a blanket. The blanket will be 5 feet long and 4 feet wide. What will the area of the blanket be?
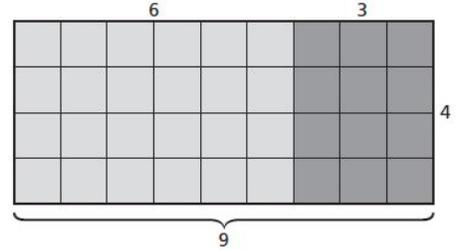
A) 24 square feet

B) 20 square feet

C) 15 square feet

D) 9 square feet

125. This hexagon has been divided into triangles with equal areas. What part of the hexagon is each triangle?

A) $\dfrac{1}{2}$

B) $\dfrac{1}{5}$

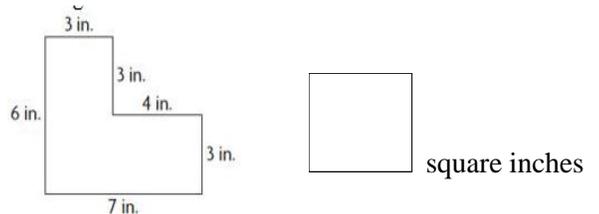C) $\dfrac{1}{6}$

D) $\dfrac{6}{6}$

126. Kylie wants to find the area of the large rectangle by adding the areas of the two small rectangles.

Select all of the expressions Kylie can use to find the area of the large rectangle.

A) $24 + 12$

B) $(4 \times 6) + (4 \times 3)$

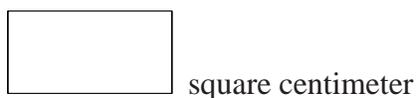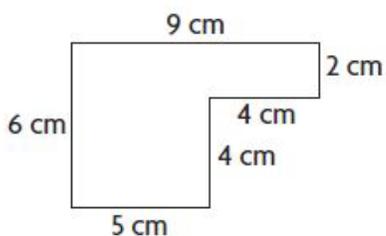C) $(6 \times 4) + (9 \times 4)$

D) $(6 \times 4) + (3 \times 9)$

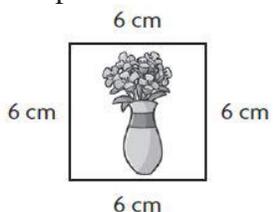127. Write the area of each figure in the box next to each figure.

☐ square inches

☐ square inches

☐ square inches
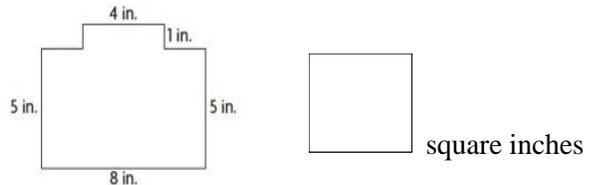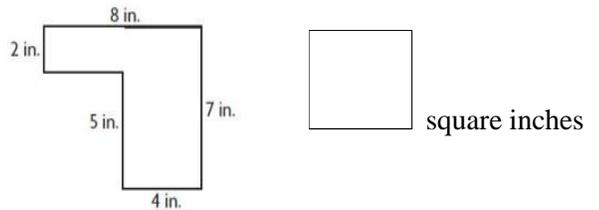
Grade 3 FSA Warm-Ups

Day 40

128. What is the area of the shape?

9 cm

2 cm

6 cm

4 cm

4 cm

5 cm

[ ] square centimeter

129. Kim wants to put trim around a picture she drew. How many centimeters of trim does Kim need for the perimeter of the picture?

6 cm

6 cm   6 cm

6 cm

A) 24 cm

B) 36 cm

C) 46 cm

D) 60 cm

130. Ben is planning a garden. Which measurement describes the perimeter of his garden?

A) The length of the garden multiplied by the width.

B) The amount of soil he will need.

C) The number of seeds he will buy.

D) The length of fence he will need.

131. Select all of the words that can describe this shape.

A) polygon
B) open shape
C) pentagon
D) hexagon
E) quadrilateral

132. Select all of the words that can describe this shape.

A) rectangle
B) rhombus
C) square
D) quadrilateral
E) polygon

133. Select the shapes that are quadrilaterals and not rectangles.

A) rhombus

B) parallelogram

C) triangle
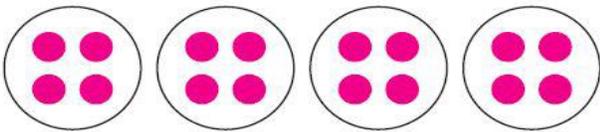
D) trapezoid

E) square

Grade 3 FSA Warm-Ups

Answer Section

1. ANS: A   STA: MAFS.3.OA.1.1

2. ANS: B, D   STA: MAFS.3.OA.1.1

3. ANS: D   STA: MAFS.3.OA.1.1

4. ANS: B, C, E   STA: MAFS.3.OA.1.2

5. ANS: 44   STA: MAFS.3.OA.1.1

6. ANS: POSSIBLE ANSWERS:

	Numbers of Rows	Number of Columns
Design 1	2	12
Design 2	6	4
Design 3	3	8

7. ANS: 4 pennies

  STA: MAFS.3.OA.1.2

8. ANS: 4 horses

  STA: MAFS.3.OA.1.2

9. ANS: 32

  STA: MAFS.3.OA.1.2

10. ANS:

Part A
For drawing, check students' work. Answers may vary.

Darrius gave muffins to (possible answers: 2, 3, 6, 9. or 18) friends.

Part B

Possible explanation: No, 18 cannot be divided into 4 groups of whole muffins with none left over.

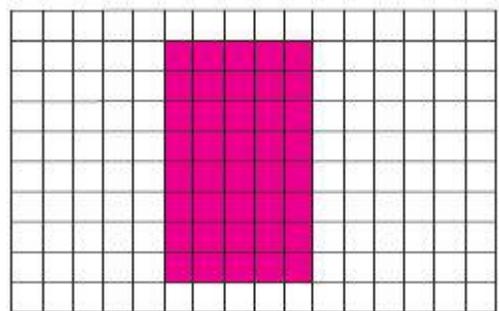 STA: MAFS.3.OA.1.2

11. ANS: 6 cookies

  STA: MAFS.3.OA.1.2

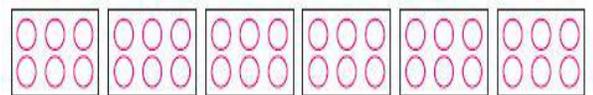12. ANS: 4 bags

  STA: MAFS.3.OA.1.3

13. ANS:

5 seeds
STA: MAFS.3.OA.1.3

14. ANS: 32 square feet

  STA: MAFS.3.OA.1.3

15. ANS:

36 spools; Possible explanations:
Students may multiply 6 x 6, count by sixes, or multiply
2 x 6 = 12 and triple the product.

  STA: MAFS.3.OA.1.3

16. ANS: 2 x 8 = 16

  STA: MAFS.3.OA.1.3

17. ANS: A, E

  STA: MAFS.3.OA.1.2

Grade 3 FSA Warm-Ups

18. ANS: B, D

    STA: MAFS.3.OA.1.4

19. ANS:

$$8 \times \boxed{\begin{matrix}⑥\\7\\8\end{matrix}} = 48 \qquad \boxed{\begin{matrix}⑥\\7\\8\end{matrix}} = 48 \div 8$$

    STA: MAFS.3.OA.1.4

20. ANS:
    $n \times 10 = 80$. Possible explanation: I can draw an array of 80 squares with 10 squares in each row. There are 8 rows, so $n = 8$. Devon needs 8 boxes.
    STA: MAFS.3.OA.1.4

21. ANS:

	Yes	No
6 × □ = 36		✓
8 × □ = 64		✓
49 ÷ □ = 7	✓	
54 ÷ □ = 6		✓

    STA: MAFS.3.OA.1.4
22. ANS: D   STA: MAFS.3.OA.1.4
23. ANS: B, C   STA: MAFS.3.OA.2.5

24. ANS: D   STA: MAFS.3.OA.2.5

25. ANS:
$$7 \times 3 = 3 \times \boxed{7}$$
$$\boxed{8} + 5 = 5 + 8$$

    STA: MAFS.3.OA.2.5

26. ANS:
    Possible Answers:
    $(2+3)+4 = (\boxed{4} + \boxed{3}) + \boxed{2}$
    $(2+3)+4 = (\boxed{3} + \boxed{4}) + \boxed{2}$

    STA: MAFS.3.OA.2.5
27. ANS:
    $\boxed{6} \times 5 = \boxed{30}$
    $5 \times \boxed{6} = \boxed{30}$

    STA: MAFS.3.OA.2.6

28. ANS:
    $4 \times \boxed{7} = 28$
    $28 \div 4 = \boxed{7}$
    $\boxed{7}$ prizes

    STA: MAFS.3.OA.2.6
29. ANS:
    $7 \div 1 = 7$
    $7 \div 7 = 1$
    $0 \div 7 = 0$

    STA: MAFS.3.OA.2.5

30. ANS: Possible answers: $8 \times 2 = 16$; $2 \times 8 = 16$

    STA: MAFS.3.OA.2.6

31. ANS: D

    STA: MAFS.3.OA.2.6

32. ANS:

STA: MAFS.3.OA.2.6

33. ANS: 21 ÷ 3 = 7

STA: MAFS.3.OA.3.7

34. ANS:

÷	27	36	54	45
9	3	4	6	5

STA: MAFS.3.OA.3.7

35. ANS: B, C

STA: MAFS.3.OA.3.7

36. ANS:

Problem	Quotient
16 ÷ 4	4
54 ÷ 6	9
56 ÷ 7	8

STA: MAFS.3.OA.3.7

37. ANS:

STA: MAFS.3.OA.3.7

38. ANS: A, C,   STA:

MAFS.3.OA.3.7

39. ANS:

9 cars; Possible explanation: First, I multiplied 3 x 5 = 15 to find the number of cars Seth gave away. Then I subtracted 15 from 24 and got 9, so there are 9 toy cars left.

STA: MAFS.3.OA.4.8

40. ANS:

I can use the equation
$(3 \times c) + 9 = 57$
$(9 \times c) + 3 = 57$
$(57 \div 9) + 3 = c$
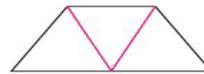
Check students' work.

6 cans

STA: MAFS.3.OA.4.8

41. ANS:

STA: MAFS.3.G.1.2

42. ANS: 7 crayons in each pack
Possible explanation: First, I subtracted 24 - 3 = 21. Then I divided 21 by 3 and got 7, so there were 7, therefore, there were 7 crayons in each pack.

STA: MAFS.3.OA.4.8

43. ANS:
Possible equations: 600 - (115 + 65) = b; 600 - (65 + 115) = b; 600 = 115 + 65 + b; 600 = 115 + b + 65; 600 = 65 + b + 115; 600 = 65 + 115 +b; 600 = b + 115 + 65

420 books

STA: MAFS.3.OA.4.8

44. ANS: D

    STA: MAFS.3.OA.4.8

45. ANS:
    No, Tim's rule is not correct. Possible explanation:
    It works for the first pair of numbers $1 + 3 = 4$, but
    it doesn't work for any of the other pairs. The rule
    should be "Multiply by 4."

    STA: MAFS.3.OA.4.9

46. ANS:

×	1	2	3	4	5
odd number	odd	even	odd	even	odd

    STA: MAFS.3.OA.4.9

47. ANS: 21, 39

    STA: MAFS.3.OA.4.9

48. ANS: 60 points

    STA: MAFS.3.OA.4.8

49. ANS: 63 inches

    STA: MAFS.3.OA.3.7

50. ANS: 38 pounds

    STA: MAFS.3.OA.4.9

51. ANS:
    Part A: 2, 4, 6, 8

    Part B: Possible explanation: Because the products
    are all even, the mystery number must also be an
    even number. I have selected all of the even one-
    digit numbers.
    STA: MAFS.3.OA.4.9

52. ANS: 900

    STA: MAFS.3.NBT.1.1

53. ANS:
    A. 800

    B. 750

    STA: MAFS.3.NBT.1.1

54. ANS:

Number	Rounded
351	350
356	360
364	360

    STA: MAFS.3.NBT.1.1

55. ANS:

Hundreds	Tens	Ones
4	9	0

    STA: MAFS.3.NBT.1.1

56. ANS:
    $390 + 230 = 620$ or $400 + 200 = 600$

    $350 + 330 = 680$ or $400 + 300 = 700$

    $480 + 220 = 700$ or $500 + 200 = 700$

    $310 + 340 = 650$ or $300 + 300 = 600$

    STA: MAFS.3.NBT.1.1

57. ANS:
    Part A: Alexandra; Possible explanation:
    Estimate the number of shells Alexandra
    has (about 260) and Erika has (about
    220). Alexandra has about 40 more.

    Part B: clam shells; 223 shells

    STA: MAFS.3.NBT.1.1

58. ANS: $245 + 212 + 286 = 743$

    STA: MAFS.3.NBT.1.2

59. ANS: A, B

   STA: MAFS.3.MD.3.7.c

60. ANS: 402 - 186 = 216

   He has 216 pieces left.
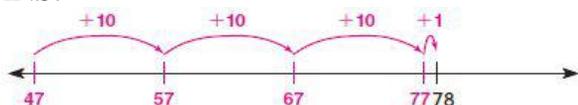
   STA: MAFS.3.NBT.1.2

61. ANS:
   52 pounds; Possible explanation: Start with 37 and count on 3 to 40. Then add 15 as 1 ten 5 ones. Remember to subtract the 3 you counted on to start, 5 - 3 = 2, so 52

   STA: MAFS.3.NBT.1.2

62. ANS:

   31 emails.
   STA: MAFS.3.NBT.1.2

63. ANS:
   Possible explanation: When Luke combined the tens and hundreds to subtract he should have combined the tens and ones. He needed to regroup 1 ten as 10 ones to subtract 48 from 52. Then he would have 0 tens 4 ones left. The difference is 204.

   STA: MAFS.3.NBT.1.2

64. ANS:
   A. 700 sweaters

   B. 231 sweaters

   C. 67 sweaters

   STA: MAFS.3.NBT.1.2

65. ANS: A, C, E   STA: MAFS.3.NBT.1.2

66. ANS: B, D, E

   STA: MAFS.3.NBT.1.3

67. ANS: A, B, C

   STA: MAFS.3.NBT.1.3

68. ANS:
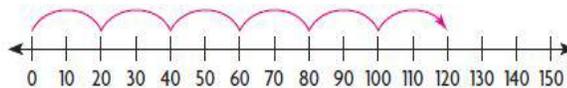
   120 cars

   STA: MAFS.NBT.1.3

69. ANS: 240 melons

   STA: MAFS.NBT.1.3

70. ANS: Book Lovers Club

   STA: MAFS.NBT.1.3

71. ANS:
   30 x 3 = 90
   3 x 30 = 90

   STA: MAFS.NBT.1.3

72. ANS: 70

   STA: MAFS.NBT.1.3

73. ANS:
   $\frac{1}{3}$; Possible explanation: There are 3 equal parts and 1 part is shaded, so I write on the top and 3 on the bottom.
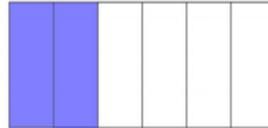
   STA: MAFS.3.NF.1.1

74. ANS:

Numerator	Denominator
○ 3	○ 3
○ 4	○ 4
○ 8	● 8
● 24	○ 24

STA: MAFS.3.NF.1.1

75. ANS:

Numerator	Denominator
○ 2	○ 3
○ 3	○ 5
● 5	○ 6
○ 6	● 8

STA: MAFS.3.NF.1.1

76. ANS:

$\frac{1}{8}$; Possible explanation: There are 8 equal parts and

1 part is shaded, so I write on the top and 8 on the bottom.

STA: MAFS.3.NF.1.1

77. ANS:

STA: MAFS.3.NF.1.1

78. ANS:

STA: MAFS.3.NF.1.1

79. ANS:

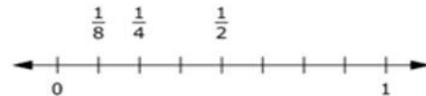STA: MAFS.3.NF.1.2.,
MAFS.3.NF.1.3c

80. ANS:

STA: MAFS.3.NF.1.3b

81. ANS: $\frac{1}{6}$

STA: MAFS.3.NF.1.3d

82. ANS:

Is Robert's statement true?

☐ Yes

☑ No

STA: MAFS.3.NF.1.3d

83. ANS: A, B, C, D

STA: MAFS.3.NF.1.3d

84. ANS: $\frac{7}{8}$

85. ANS:

Shaded fraction: $\frac{4}{6}$

Sum of unit fraction: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{4}{6}$

86. ANS:

STA: MAFS.3.NF.1.2a, MAFS.3.NF.1.2b

87. ANS: $\frac{8}{8}$

STA: MAFS.3.NF.1.2a, MAFS.3.NF.1.2b

88. ANS:

STA: MAFS.3.NF.1.2

89. ANS: D

STA: MAFS.3.NF.1.2b

90. ANS:

Fraction	$\frac{2}{2}$	$\frac{6}{2}$	$\frac{4}{2}$	$\frac{8}{2}$
Whole	1	3	2	4

STA: MAFS.3.NF.1.3c

91. ANS:

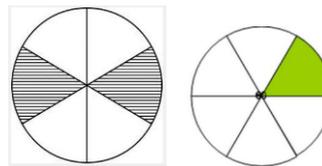$\frac{5}{8} > \frac{3}{8}$; or $\frac{3}{8} < \frac{5}{8}$

STA: MAFS.3.NF.1.3d

92. ANS:
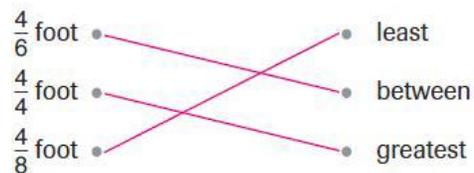
STA: MAFS.3.NF.1.3d
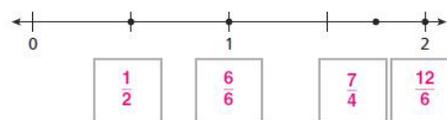
93. ANS: Shadings my vary. Possible answers:

$\frac{2}{6}$ $\frac{1}{6}$

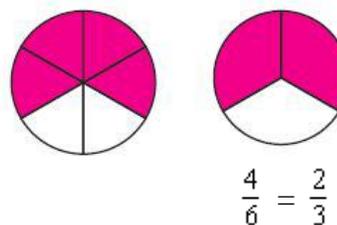STA: MAFS.3.NF.1.3c

94. ANS:

STA: MAFS.3.NF.1.3c

95. ANS:

$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$

STA: MAFS.3.NF.1.3a

96. ANS: $\frac{6}{8} = \frac{3}{4}$

STA: MAFS.3.NF.1.3a

97 ANS:

$\frac{4}{6} = \frac{2}{3}$

STA: MAFS.3.NF.1.3b

98. ANS:

Has 1 right angle	Has at least 2 sides equal length
L, N, P, R	J, L, O

STA: MAFS.3.MD.1.1

99. ANS:

Chore	Time it Take to Complete the Chore	Start time	End Time
Watering flowers	16 minutes	10:00 am	10:16 am
Sweeping kitchen	5 minutes	10:16 am	10:21 am
Dusting all rooms	13 minutes	10:21 am	10:34 am

STA: MAFS.3.MD.1.1

100. No; Possible explanation: Scott takes the dish out of the oven at 5:49 p.m. Then he needs to let it cool for 8 minutes or until 5:57 p.m. before he can serve it.

STA: MAFS.3.MD.1.1

101. ANS:
5:52 p.m.

STA: MAFS.3.MD.1.1

102. ANS:
About 2 liters

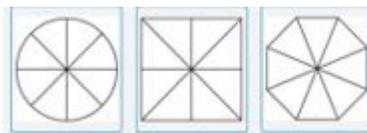STA: MAFS.3.MD.1.2

103. ANS:
24 grams of spices

STA: MAFS.3.MD.1.2
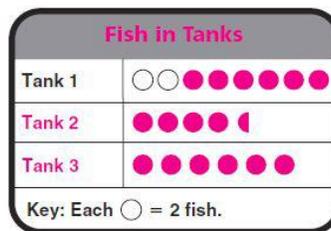
104. ANS: C
STA: MAFS.3.MD.1.2

105. ANS: A, D
STA: MAFS.3.MD.1.2

106. ANS:
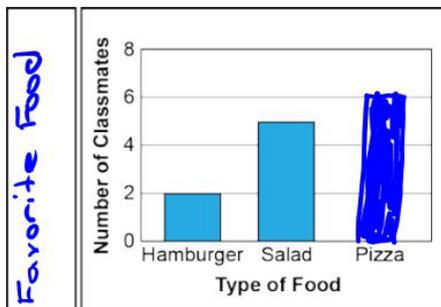

STA: MAFS.3.G.1.2

107. ANS:

$4\frac{1}{2}$; Possible explanation: Because each circle represents 2 fish, I drew 4 circles to represent 8 fish and 1 half circle to represent 1 fish.

STA: MAFS.3.MD.2.3

108. ANS: C
STA: MAFS.3.MD.2.3

109. ANS: Part: A The Title should be: Favorite Food. Pizza should have a bar at 6. See example:
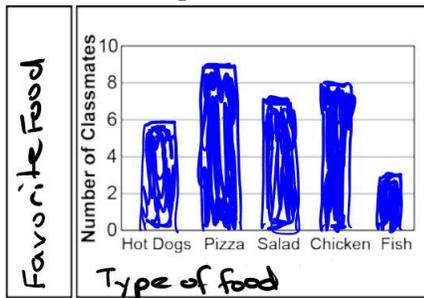

Part B: 4 more students prefer pizza to hamburger.

STA: MAFS.3.MD.2.3

110. ANS:
     Part A: Example answer

     Part B: 6

     STA: MAFS.3.MD.2.3
111. ANS:
     Part A: 11 shells
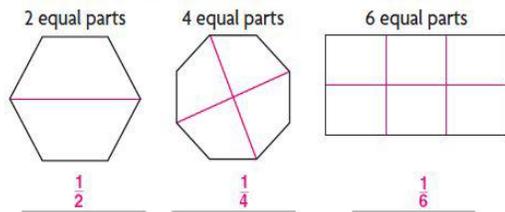   Part B: 2 shells

     STA: MAFS.3.MD.2.4

112. ANS:

     Part A: $4\frac{3}{4}$ inches

     Part B: 5 inches

     STA: MAFS.3.MD.2.4

113. ANS:

     STA: MAFS.3.G.1.2

114. ANS:

     STA: MAFS.3.MD.3.5a-b

115. ANS:
     Perimeter: 24 units
     Area: 21 units
     Possible explanation: For perimeter, I
     counted the unit edges around the figure:
     $6 + 6 + 12 = 24$.   For area, I counted the
     unit squares inside the figure: $1 + 2 + 3 +$
     $4 + 5 + 6 = 21$.

     STA: MAFS.3.MD.3.5a-b

116. ANS: 12 squares
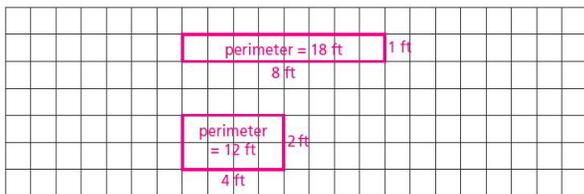
     STA: MAFS.3.MD.3.5a-b

117. ANS: B

     STA: MAFS.3.MD.3.5

118. ANS: 13 square meters

     STA: MAFS.3.MD.3.6

119. ANS:

Possible answer: The banner with the greater perimeter is long and thin. The banner with the lesser perimeter has sides that are closer in length.

   STA: MAFS.3.MD.3.6

120. ANS: A, D, F

   STA: MAFS.3.MD.3.7a

121. ANS:
   $4 \times 10 = 40$ or $10 \times 4 = 40$
   40 square meters

   STA: MAFS.3.MD.3.7a

122. ANS: 74 square miles.

   STA: MAFS.3.MD.3.7d

123. ANS:
   8 x 9 = 72 or 9 x 8 = 72
   Area = 72 square inches
   (Student can draw an array)

   STA: MAFS.3.MD.3.7b

124. ANS: B

   STA: MAFS.3.MD.3.7b

125. ANS: C

   STA: MAFS.3.G.1.2

126. ANS: A, B

   STA: MAFS.3.MD.3.7c

127. ANS:

   30

   36

   44

   STA: MAFS.3.MD.3.7d

128. ANS: 38 square centimeter

   STA: MAFS.3.MD.3.7d

129. ANS: A

   STA: MAFS.3.MD.4.8

130. ANS: D

   STA: MAFS.3.MD.4.8

131. ANS: A, C

   STA: MAFS.3.G.1.1

132. ANS: A, B, C, D, E

   STA: MAFS.3.G.1.1

133. ANS: A, D,

   STA: MAFS.3.G.1.1