BRIDGEPREP ACADEMY
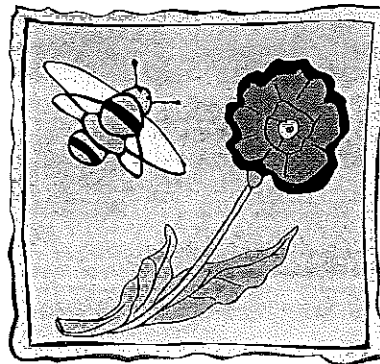### A Bilingual Academy for Learning
"Where learning is a journey!"

SPRING BREAK PACKET
Elementary Mathematics
Grade 3

NAME: _____

TEACHER: _____

THIRD GRADE SPRING BREAK HOMEWORK
Mathematics

DIRECTIONS

Complete each activity in the Spring Break Packet. Write your responses in the spaces provided.

Students are to return the completed packet to their teacher on March 30, 2015. The activities may be counted as part of the homework grade for the fourth quarter.

Parents are encouraged to assist in the following ways:

- Make a plan to complete the activities during the Spring Break.

- Provide a quiet space and time for your child to work on the homework.

- Help your child with the directions and completing the activities.

- Review and discuss your child's responses. Provide positive feedback and praise for sincere effort and independence.

- Encourage fact practice and assist as needed.

Thank you for helping your child succeeds!

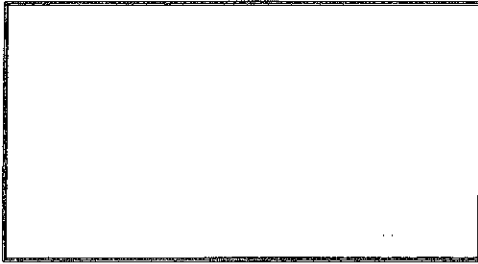Name: _____   Date: _____

MAFS.3.OA.1.1

1.   Draw an array and write the product for each numerical expression.

3×5 2×8
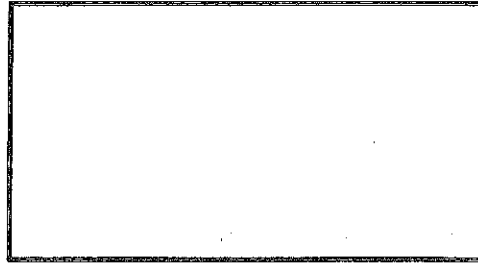
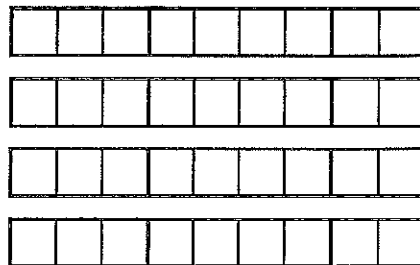Product: _____   Product: _____

2.   Draw an array to match the following expression: 6×4

Write a repeated addition sentence to find the product: _____

Find the product: _____

3.   Which expression is represented by the model shown below?

A. 4×9

B. $9 \div 4$

C. 36×4

D. $9 \div 36$

4.   Isis purchased 5 packages of bagels. Each package contained 6 bagels. How many bagels did Isis purchase?

_____ bagels

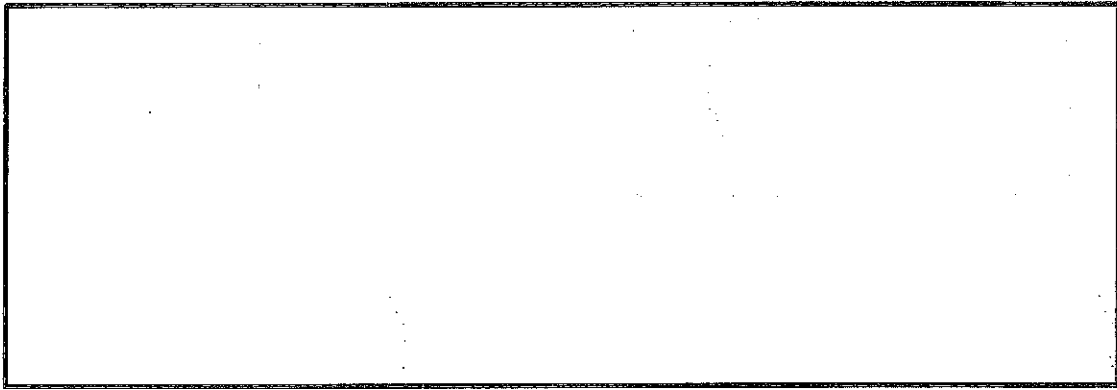Describe another situation where there would be 5 groups of 6.

_____

_____

_____

_____

MAFS.3.OA.1.2

5. Divide the numbers below:

$$6\overline{)42}$$

6. I have 21 M & M's that I want to share with my 2 friends. Draw a picture to show how I can divide the 21 M & M's among the 3 of us.

7. The number of objects described in which situation can be represented by $72 \div 8$?

    A. There are 72 boxes with 8 pencils in each box.

    B. There are 72 people on a bus, and 8 people get off the bus.

    C. There are 72 marbles that need to be sorted into 8 equal groups.

    D. There are 72 books on a shelf, and 8 more books are put on the shelf.

MAFS.3.OA.1.3

8.   There are 28 blocks. 4 blocks fit in a box. How many boxes are needed?

9.   Penny has 63 party favors to give to 7 friends. She wants to give each friend the same amount. How many party favors should she give to each friend?

10.   Hilda and Mallory each have the same number of seashells.

   • Hilda sorted her seashells into 3 groups with 8 seashells in each group.

   • Mallory sorted her seashells into 6 equal groups.

How many seashells were in each of the groups Mallory made?

A.   4

B.   9

C.   18

D.   24

Name: _____   Date: _____

MAFS.3.OA.1.4

11. Write the missing numbers to make each equation true.

_____ ÷ 2 = 6	_____ = 8 x 5
5 = 25 ÷ _____	6 = 3 x _____
80 = 8 x _____	20 ÷ ___ = 10

12. Solve:

$$24 \div n = 6$$

$$n = \underline{\hspace{2cm}}$$

How does the equation 6 × 4 = 24 help you?

_____

_____

_____

_____

13. Mr. Jacobs had 56 books in his office. He put an equal number of books on each of 7 shelves. The equation below can be used to determine the number of books he put on each shelf.

$$56 \div 7 = ?$$

How many books, in all, did Mr. Jacobs put on each shelf?

A. 7

B. 8

C. 49

D. 63

Name: _____   Date: _____

MAFS.3.OA.2.5

14.   The array has 7 rows of circles with 9 circles in each row.

O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O

Write a multiplication expression that can be used to find the total number of circles in the array.

Then find the total number of circles.

Name: _____   Date: _____

15.   This array has 5 rows with 9 circles in each row and 2 rows with 9 X's in each row.

O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O
O	O	O	O	O	O	O	O	O
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X

Write a multiplication expression that can be used to find the total number of circles and the total number of X's in the array.

Then find the total number of circles and X's combined.

16.   What number goes in the _____ to make the number sentence true?

$$12 \times 2 = (\underline{} \times 2) + (2 \times 2)$$

A.   10

B.   12

C.   20

D.   24

17.   What is another way of expressing 4×12 ?

A. $(4 \times 10) + (4 \times 2)$

B. $(4 \times 1) + (4 \times 2)$

C. $(4 \times 10) + 2$

D. $4 + (10 \times 2)$

18.   Select all the expressions that could be used to find 8 x 10.

O   8 x (2 x 5)

O   8 + (2 x 5)

O   (8 x 2) x 5

O   10 x 8

O   (8 x 8) x (8 x 2)

Name: _____   Date: _____

MAFS.3.OA.2.6

19. Write the number that makes the number sentence true.

   $63 \div 7 = ?$ is the same as $? \times 7 = 63$ _____

   $32 \div 4 = ?$ is the same as $? \times 4 = 32$ _____

20. Joe knows that 4 x 6 = 24. How can he use that fact to find the answer to the problem below?
   24 donuts are divided into 4 boxes. How many donuts are in each box?

   Write a division equation: _____ $\div$ _____ = _____
   Explain your reasoning:

   _____

   _____

   _____

21. Kevin separated 45 baseball cards into 9 equal stacks. Which number sentence could be used to determine the number of baseball cards in each stack?

   A. $9 \times ? = 45$

   B. $9 \div ? = 45$

   C. $? + 9 = 45$

   D. $? \div 9 = 45$

Name: _____   Date: _____

MAFS.3.OA.3.7

22. Divide.

$8 \div 4 =$ _____ $45 \div 5 =$ _____

$18 \div 9 =$ _____ $10 \div 5 =$ _____

$14 \div 7 =$ _____ $20 \div 4 =$ _____

$20 \div 5 =$ _____ $6 \div 3 =$ _____

$40 \div 4 =$ _____ $35 \div 7 =$ _____

23. Create an array to solve the following equation:

$$4 \times 3 = \text{\_\_\_}$$

Then write the fact family for his equation on the lines below, and check your answer with the grid available below the lines (create a model of your product).

_____   _____   _____
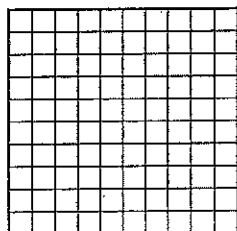
MAFS.3.OA.4.8

24. You have been saving for a new Lego set. It costs $28. You have $19. How much do you still need to save?

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25. The Andersons are having a big family reunion and barbeque. Three families were asked to bring hot dog rolls. If each family bought 12 hot dog rolls, how many hot dog rolls will there be altogether?

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26. Jerome had 23 farm animal stickers and 17 sea animal stickers. Jerome used all of the stickers to fill an 8-page scrapbook. He put the same number of stickers on each page. How many stickers did he put on each page?

    A.   5

    B.   6

    C.   32

    D.   40

27. The Rogers family drove a total of 482 miles, starting on Friday and ending on Sunday. They drove 138 miles on Friday and 225 miles on Saturday. How many miles did they drive on Sunday?

 A. 745

 B. 363

 C. 121

 D. 119

MAFS.3.OA.4.9

28. Suzy says an even number times an even number always makes an even product. Tell why you agree or disagree with Suzy.

_____

_____

_____

_____

29. Circle the number that does not belong in the pattern below? Explain.

<div align="center">6, 12, 18, 24, 30, 36, 43, 48, 54</div>

_____

_____

_____

_____

30. The first row in a pattern of tiles had 5 tiles. Each row after the first had 2 more tiles than the row before it, as shown below.
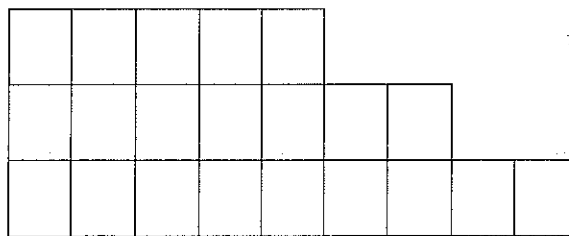
Which statement is true about the number of tiles in any row?

A. It is divisible by 10.

B. It is an even number.

C. It is a multiple of 3.

D. It is an odd number.

Name: _____   Date: _____

MAFS.3.NBT.1.1

31.   Round to the nearest 10 or 100.

634 _____ _____   184 _____ _____
    Nearest 10   Nearest 100   Nearest 10   Nearest 100

516 _____ _____   798 _____ _____
    Nearest 10   Nearest 100   Nearest 10   Nearest 100

32.   Mark an X on each number line that shows where 542 is located.

540   550

0   1,000

500   600
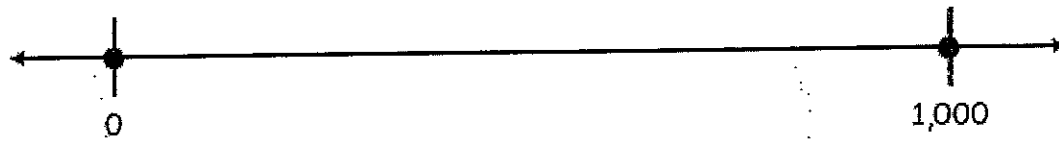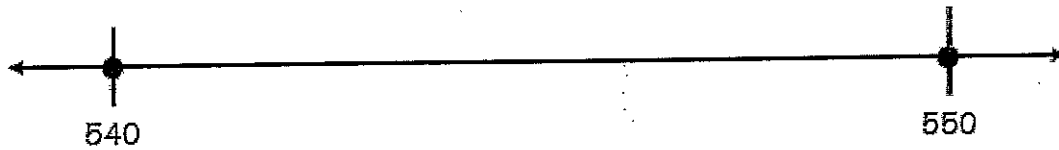
MAFS.3.NBT.1.2

Write an equation to solve each problem. Then solve the problem.

33.   At Jefferson Elementary School, 54 boys and 28 girls participated at the baseball field day. Create an expression that can help you find how many students participated at the field day?

| |
| |

What is the total amount of students who participated at the baseball field day?

| |
| |

34.   Jane's dog weighs 81 pounds. Maria's weighs 55 pounds. Create an expression that can help you find out how much more does Jane's dog weigh than Maria's dog?

| |
| |

How much more does Jane's dog weigh than Maria's dog?

| |
| |

MAFS.3.NBT.1.3

35. Find the product.

$6 \times 40 =$ _____ $30 \times 5 =$ _____

$90 \times 4 =$ _____ $9 \times 30 =$ _____

36. Find the product.

$6 \times 30 =$ _____ $40 \times 5 =$ _____

$90 \times 2 =$ _____ $7 \times 30 =$ _____

37. Select all expressions that have a product of 630.

   ○ 6×70

   ○ 7×90

   ○ 8×60

   ○ 9×70

   ○ 4×50
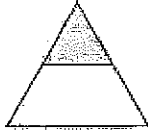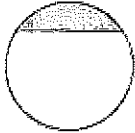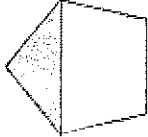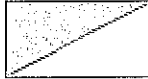
MAFS.3.NF.1.1

38. Divide the rectangle into 4 equal parts. Then shade in 1 part. Write the fraction for the shaded part.
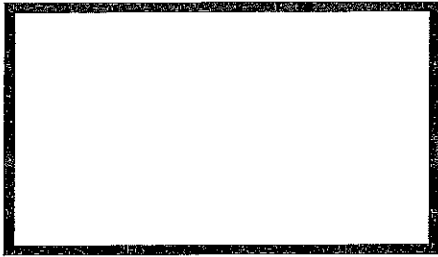
39. Which figure is $\frac{1}{2}$ shaded?

A.	
B.	
C.	
D.	

40. Ms. Shay divided her garden into equal parts for planting, as shown in the diagram below. The shaded part of the diagram shows where she planted carrots.
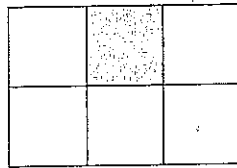
Which fraction of the garden is planted with carrots?

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

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

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

D. $\dfrac{1}{2}$

MAFS.3.NF.1.2

41.   Write the fractions in the correct box below:

$$\frac{1}{20} \qquad \frac{4}{10} \qquad \frac{3}{100} \qquad \frac{11}{20} \qquad \frac{24}{25}$$

Close to 0	Close to $\frac{1}{2}$	Close to 1

42.   Put an X on the spot where $\frac{8}{10}$ should be placed on the number line. Explain your thinking.

0   1

43.   The number line below shows five points, labeled J, L, M, Q, and R.

Which two points have a distance of $\frac{3}{8}$ between them?

A.   J and L

B.   J and M

C.   L and Q

D.   M and R

44. The points on the number line represent the distances of 4 different locations from Jordan's house. The library is one mile from Jordan's house.

What location is $\frac{2}{4}$ mile from Jordan's house?

A. the park

B. the school

C. the library

D. the soccer field

MAFS.3.NF.1.3

45.   Place each fraction on the number line.

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

$\boxed{\dfrac{3}{6}}$
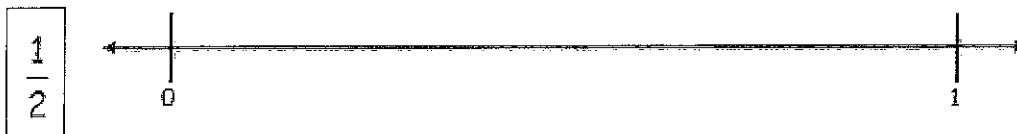
Are these fractions equivalent? Explain how you know.

_____

_____

_____

_____

46.   Lee says $\dfrac{2}{3}$ and $\dfrac{4}{6}$ are equivalent. Use the rectangles to show the fractions.
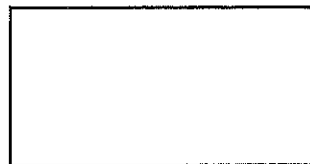
Use words to explain why Lee is correct.

_____

_____

_____

47. Which fraction is equivalent to $\frac{2}{8}$

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

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

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

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

48. A number line is shown below. Which pair of fractions is equivalent?

      A. $\frac{5}{8}$ *and* $\frac{2}{4}$

      B. $\frac{2}{4}$ *and* $\frac{4}{8}$

      C. $\frac{3}{8}$ *and* $\frac{2}{4}$

      D. $\frac{2}{4}$ *and* $\frac{2}{8}$

Name: _____   Date: _____

MAFS.3.MD.1.1

49. What is the time shown on the clock?

_____   _____   _____
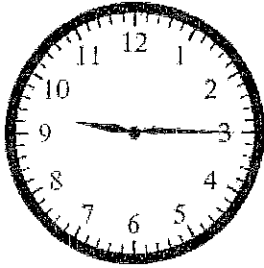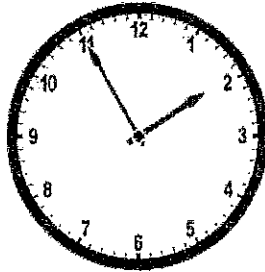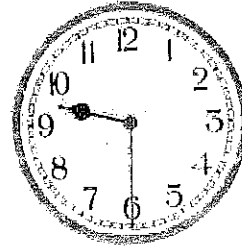
50. Look at the clock:
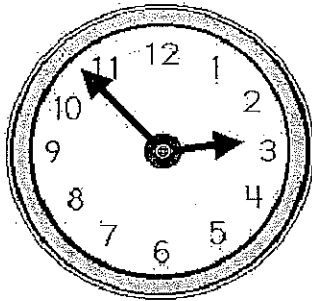
About what time is shown on the clock?

A. 2:46

B. 2:48

C. 2:53

D. 3:07

MAFS.3.MD.1.2

51. Which of these could be the mass of an adult horse?

    A.   500 liters

    B.   500 grams

    C.   500 milliliters

    D.   500 kilograms

52. There were 18 students in Mr. Casey's third grade class. Each student brought in one 2-liter bottle of soda for the class party. How many liters of soda did the class have for the party?

53. Mrs. Sevier had 40 kilograms (kg) of topsoil to add to each of her 5 different gardens. If each of the 5 gardens gets the same amount of topsoil, how many kilograms of topsoil will each garden get?

Name: _____   Date: _____

MAFS.3.MD.2.3

54.   John surveys his classmates about their favorite foods, as shown in the bar graph.
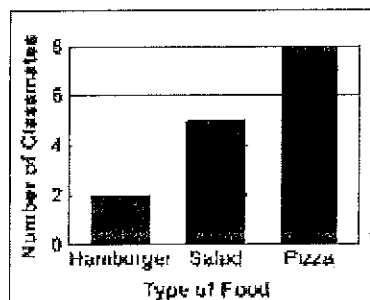
How many more classmates prefer pizza over salad?   _____

55.   The table below shows the favorite hobbies of 152 students in the fourth-grade classes at a school.

Fourth-Grade Hobbies

Hobby	Number of Students
Painting	42
Reading	51
Sports	34
Writing	25

According to the table, how many more students like reading better than writing as a hobby?

A.   17
B.   26
C.   59
D.   76

56. Ms. Spigler has six types of flowers in her garden. The bar graph below shows the number of each type of flower.
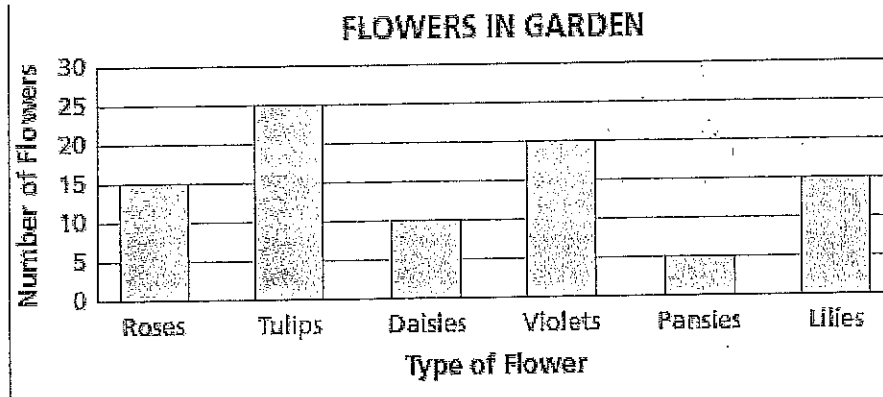
Based on the bar graph, which sentence is true?

A.   Ms. Jones has 25 more tulips than pansies.

B.   Ms. Jones has 10 more lilies than daisies.

C.   Ms. Jones has 5 more violets than lilies.

D.   Ms. Jones has 5 more roses than pansies.

Name: _____   Date: _____

MAFS.3.MD.2.4

57.   A pencil is shown:

What is the length of the pencil to the nearest whole inch? _____

58.   The lengths of several pencils are shown.

Pencil Length (inches)	
Pencil 1	6
Pencil 2	9
Pencil 3	6
Pencil 4	8

Create a line plot that shows these data.

Pencil Length (inches)
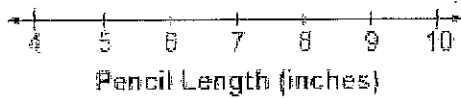
MAFS.3.MD.3.5

59.   Write the area of the shaded figure on each grid.
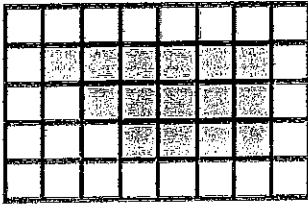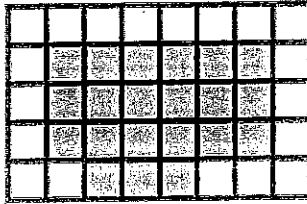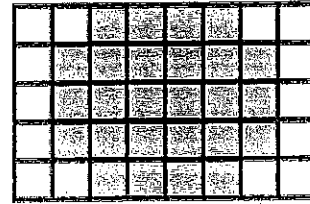
_____ square units   _____ square units   _____ square units

60.   Write the multiplication fact that each shaded figure represents.

_____ = _____   _____ = _____   _____ = _____
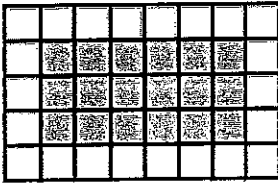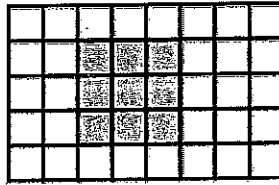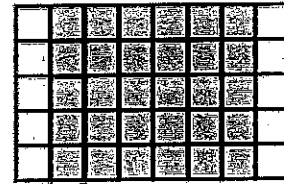
61.   If each side of a square has a length of 1 unit, which statement about the square is true?

   A.   The square is a unit square that can be used to measure mass.

   B.   The square is a unit square that can be used to measure area.

   C.   The square is a unit square that can be used to measure volume.

   D.   The square is a unit square that can be used to measure weight.

Name: _____   Date: _____

MAFS.3.MD.3.6

62.   Circle the rectangle with the greatest area. Each unit is 1 cm long and 1 cm wide.
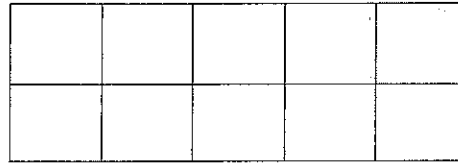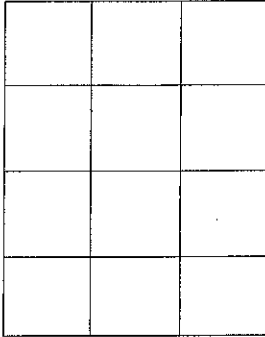
Explain how you know your answer is correct.

_____

_____

_____

63.   A rectangular sandbox has an area of 56 square yards and a length of 4 yards. What is the width, in yards, of the sandbox?

How did you find the width of the sandbox?

_____

_____

_____

64.   A playground has an area of 30 square meters. Which shape could represent the playground?

KEY
☐ = 1 square meter

A.
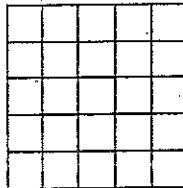
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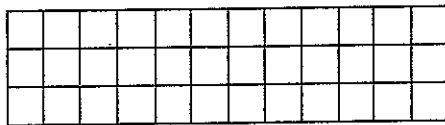
C.
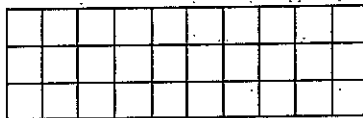
D.
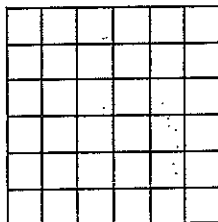
Name: _____   Date: _____

65.   The area of Danny's new patio floor is 80 square feet. Select all floors that could be Danny's patio.

A.

B.

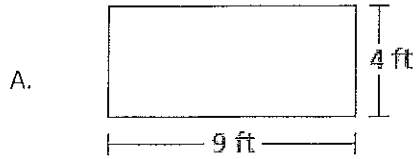C.

D.
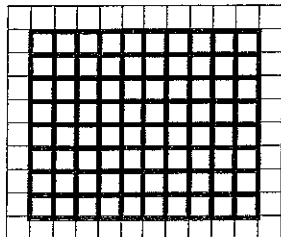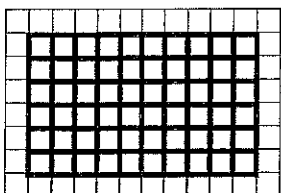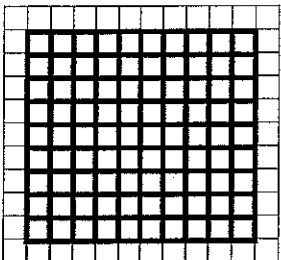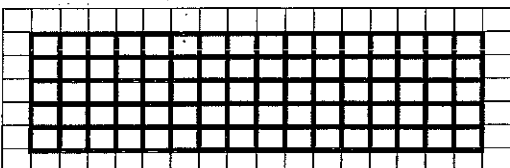
MAFS.3.MD.3.7

66. Shade a figure with an area of 5×6.
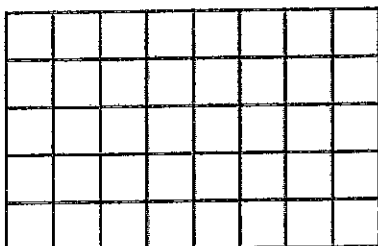
67. Shade a figure with an area of 7×4.
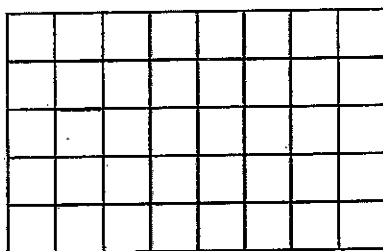
68. The rectangular floor of a bathroom is 6 feet wide and 7 feet long. What is the total area, in square feet, of the floor of the bathroom?

    A. 13

    B. 26

    C. 42

    D. 48

69. Mandy's garden is shaped like a rectangle. It has a total area of 40 square feet.
     Which figure could represent Mandy's garden?

A.
```
┌──────────────┐  ⊤
│              │  4 ft
│              │  ⊥
└──────────────┘
├──── 9 ft ────┤
```

B.
```
┌──────────┐  ⊤
│          │  5 ft
│          │  ⊥
└──────────┘
├── 7 ft ──┤
```

C.
```
┌──────────────────┐  ⊤
│                  │
│                  │
│                  │  9 ft
│                  │
│                  │
└──────────────────┘  ⊥
├────── 11 ft ─────┤
```

D.
```
┌──────────┐  ⊤
│          │  5 ft
│          │  ⊥
└──────────┘
├── 8 ft ──┤
```
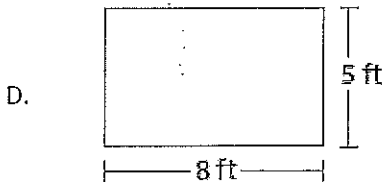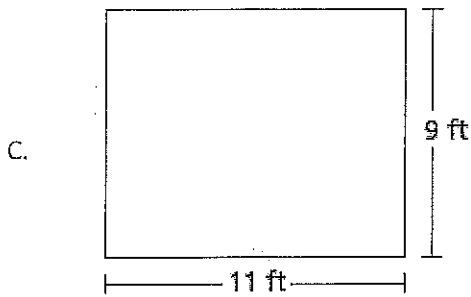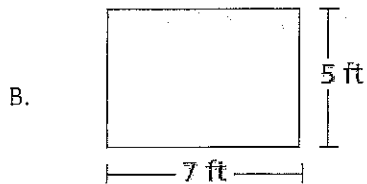
Name: _____   Date: _____

70.   Ryan used square tiles to make the design shown below. He used gray tiles and white tiles.

├─ 3 in. ─┼──── 5 in. ────┤

7 in.
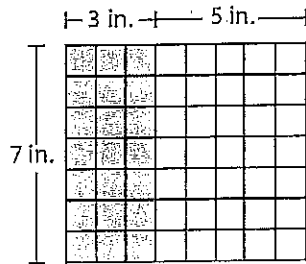
Which expression could be used to find the total area, in square inches, of Ryan's design?

A. $(7 \times 3) + (7 \times 5)$

B. $(7 + 3) \times (7 + 5)$

C. $3 \times 5 \times 7$

D. $3 + 5 + 7$
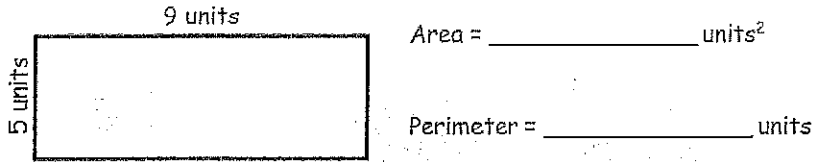
71.   Which figure below has an area of 36 square units?

KEY
☐ = 1 square unit

A.

C.

B.

D.
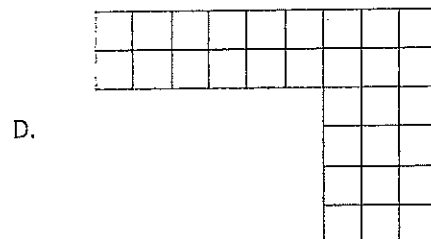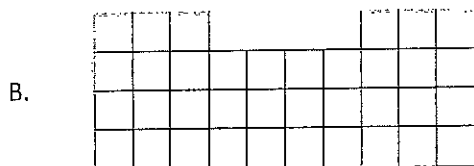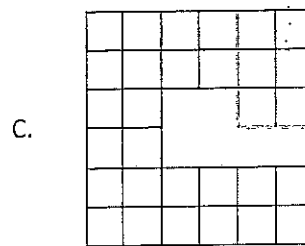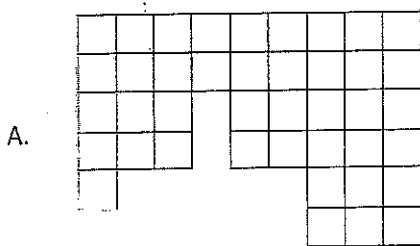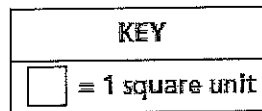
Name: _____   Date: _____

MAFS.3.MD.4.8

72.   Find the area and perimeter of the rectangle.

9 units

5 units

Area = _____ units^2

Perimeter = _____ units

73.   Draw a figure with an area of 14 square units.
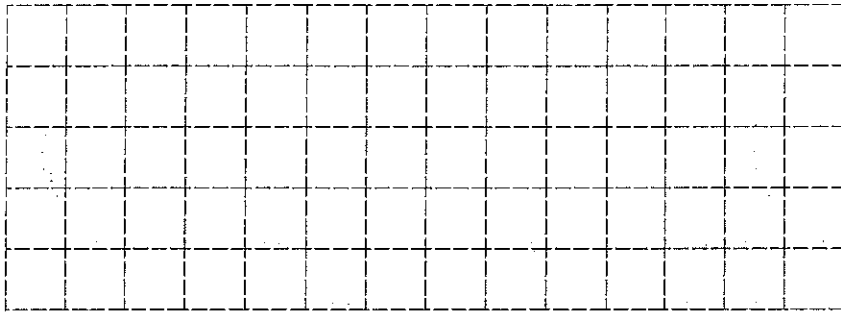
Name: _____   Date: _____

MAFS.3.G.1.1

74. Circle the shapes below that are quadrilaterals
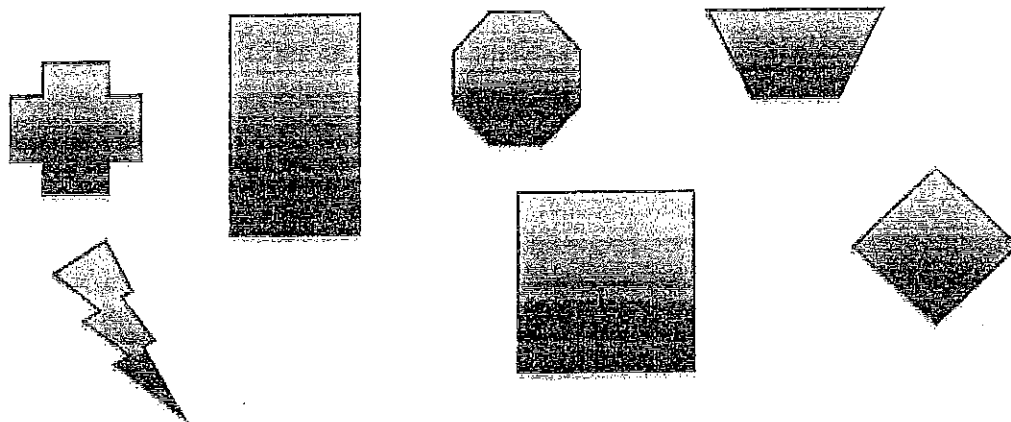
75. Circle the quadrilaterals. Explain why you circled some, but not all, the figures.
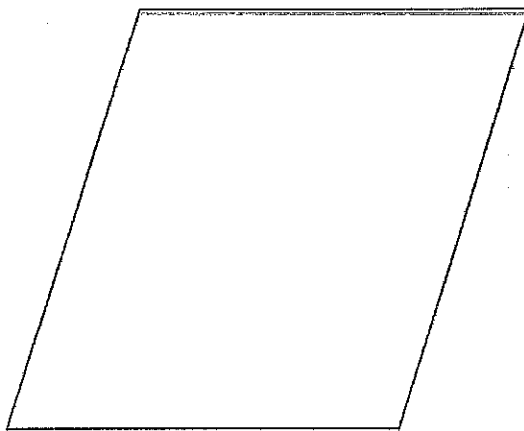
MAFS.3.G.1.2

76. Divide the rectangle into 4 equal parts. Shade two parts. What fraction of the total area of the rectangle does the shaded part represent?

_____

_____

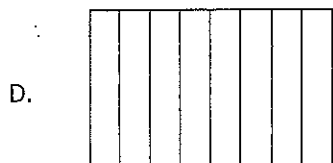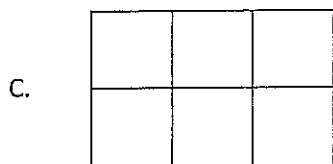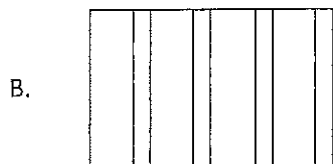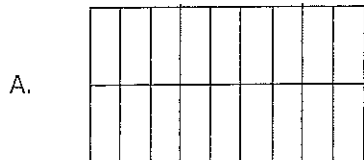77. Divide the shape in fourths. Explain how you know you are correct?
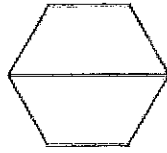
_____

_____

_____

_____

78. Bruce made a game board by painting stripes on a rectangular piece of cardboard. Each stripe covered $\frac{1}{8}$ of the rectangle. Which figure could represent the game board Bruce made?

A.

B.

C.

D.

Name: _____   Date: _____
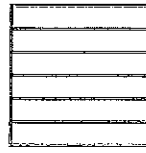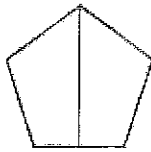
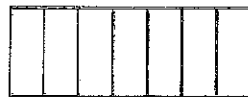79. Hugo divided shapes into equal parts as shown below:

Shape A   Shape B

Shape C   Shape D

In which shape is each part equal to $\frac{1}{6}$ the area of the whole shape?

A. Shape A

B. Shape B

C. Shape C

D. Shape D

80. Divide the hexagon into three equal parts (each having the same area). Express the area of each part as a unit fraction.