

Rising Grade 4 Summer Math Packet

The problems in this packet are designed to help you review topics from previous mathematics courses that are essential to your success in grade 3. You are expected to bring this completed packet to class on the first day of school. In addition, this packet will count as part of your first-quarter grade. **Upon returning, you will be ASSESSED on the content of this packet.** All content outlined in the packet is grade 3 material. Neatly SHOW YOUR WORK!

1. Allison used an array of counters to represent how many beads she has. What is the multiplication equation for the array? Draw a different array that has the same factors.
2. Barry is skip counting by 9s. Which numbers will he **NOT** count? Select all that apply.
☐ 3
☐ 16
☐ 45
☐ 53
☐ 63

3. Elizabeth orders 4 movie tickets. Each ticket costs \$10. She has to pay a one-time service fee of \$2. Write and solve an equation to show how much money Elizabeth spends in all.
4. Lindsey bought 4 boxes of baked apples for her school holiday party. Each box contains 6 baked apples. There are 24 students in her class. Will she have enough baked apples to give one to each of her classmates? Explain.

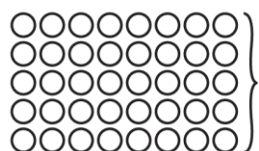
5. Which of the following statements are true? Select all that apply.
☐ $5 \times 7 = ?$; Because 5 is an odd number and 7 is an odd number, the answer is odd.
☐ $3 \times 6 = ?$; Because 3 is an odd number and 6 is an even number, the answer is odd.
☐ $4 \times 8 = ?$; Because 4 is an even number and 8 is an even number, the answer is odd.
☐ $3 \times 9 = ?$; Because 3 is an odd number and 9 is an odd number, the answer is odd.
☐ $7 \times 1 = ?$; Because 7 is an odd number and 1 is an odd number, the answer is odd.

Explain how you can use known facts to find 3×7 .

7. Anthony says that $0 \div 5$ and $5 \div 0$ both have a quotient of 0. Is Anthony correct? Explain.
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8. Use the array and known facts to find 7×8 .

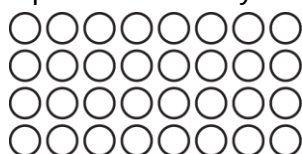

 $2 \times 8 = \underline{\hspace{2cm}}$


 $5 \times 8 = \underline{\hspace{2cm}}$

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

So, $7 \times 8 = \underline{\hspace{2cm}}$.

9. Megan has 32 cupcakes. She places the cupcakes in the array shown below. Write the numbers on the lines to show repeated addition, skip counting, and multiplication to represent the array.



$8 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 32$

$\underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 32$

10. Isaiah places 12 pieces of gum into 4 equal stacks. Andrea places 20 pieces of gum into 5 equal stacks. Who has more pieces of gum in each stack? Use equations to justify your answer.

11. Nicholas writes the following:

$36 - 6 = 30$

$30 - 6 = 24$

$24 - 6 = 18$

$18 - 6 = 12$

$12 - 6 = 6$

$6 - 6 = 0$

What problem is Nicholas trying to solve?

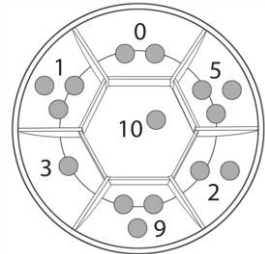
- A $36 - 12$ C $36 \div 3$
 B 36×6 D $36 \div 6$

12. Mr. Wilson has packets of tomato seeds for his students to plant. Each packet has 8 seeds in it. Select the correct number of packets for each number of seeds.

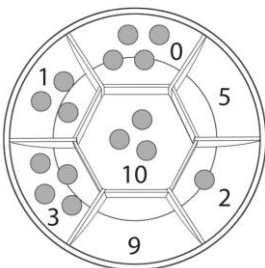
	3 packets	6 packets	7 packets	9 packets
48	☐	☐	☐	☐
72	☐	☐	☐	☐
24	☐	☐	☐	☐
56	☐	☐	☐	☐

13. A coach brought a cooler with 20 bottles of water for the baseball team. Each player gets the same number of bottles of water. There are 5 players on the team. Which statement is true?
- A Each player will get 1 bottle of water.
- B Each player will get 2 bottles of water.
- C Each player will get 3 bottles of water.
- D Each player will get 4 bottles of water.
14. In this game, the person with the most points is the winner. Evan flips 15 chips into the wheel. He earns the number of points shown in each section for each chip that lands in that section.

- A. Write an equation to show how many points Evan scored. Explain



- B. Hadley takes a turn next. Her results are shown.



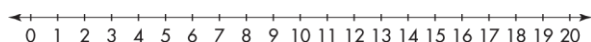
Hadley says that because she scored three 10s, she won the game. Is she correct? Explain.

15. Emma packed gift bags to give to the 5 guests at her party. Each bag has 2 rings, 3 notebooks, 3 stickers, and 2 pencils.
- A. How many total items did Emma pack into the gift bags?
- A 10 items C 55 items
B 50 items D 72 items
- B. Emma decides to pack 7 gift bags instead of 5. Which equation shows the number of rings Emma needs?
- A $5 \times 2 = 10$ C $7 \times 8 = 56$
B $7 \times 2 = 14$ D $5 \times 3 = 15$
-
16. For a school play, 4 students spent a total of \$28 on their costumes. If all the costumes cost the same amount, how much did each student have to pay for his or her costume?
- A \$4 B \$7 C \$21 D \$25
-
17. A. Write the fact family for 6, 9, and 54.
- B. How could you check if $54 \div 9 = 6$ is correct?
- A Multiply 9 and 6.
B Add 9 and 6.
C Multiply 54 and 6.
D Subtract 6 from 63.
18. Linda made 48 dog treats. She made only one flavor of dog treat. Which of the following bags of treats could she have made? Select all that apply.

Specialty Dog-Treats	
Chicken-flavor	8 treats per bag
Beef-flavor	7 treats per bag
Lamb-flavor	6 treats per bag

- ☐ 42 beef-flavored bags; When I divide 42 by 7, I get 6.
- ☐ 6 chicken-flavored bags; When I divide 48 by 8, I get 6.
- ☐ 48 chicken-flavored bags; When I multiply 8 by 6, I get 48.
- ☐ 6 lamb-flavored bags; When I multiply 6 and 8, I get 48.
- ☐ 8 lamb-flavored bags; When I divide 48 by 6, I get 8.
-

19. Ariel is making quilts for 2 of her cousins. Each quilt uses 9 yards of fabric. How many yards of fabric does Ariel need? Use the number line to solve the problem.



20. A. A large array is broken up into two smaller arrays, 3×3 and 3×5 . What was the larger array?

- B. Which property was used in **Part A** to break apart the array?

- A Commutative Property of Multiplication
- B Associative Property of Multiplication
- C Distributive Property
- D Identity Property of Multiplication

21. Using the properties of multiplication, write 5×7 in two different ways. Name the properties used.

22. Heidi uses mental math to multiply. What could she use to find 7×60 ?

23. Molly made 10 friendship bracelets on Saturday and 14 more on Sunday. She gave all the bracelets to 8 friends. Each friend got an equal number of bracelets. How many bracelets did each friend get?

- A 2 bracelets
- B 3 bracelets
- C 4 bracelets
- D 5 bracelets

24. Jonah has a game night party. He and his friends have a total of 32 games to choose from. They stack the games into 8 equal piles. How many games are in each pile?

- A 7 games
- B 6 games
- C 4 games
- D 3 games

25. Which shows a way to solve 8×5 ? Select all that apply.

- ☐ Use the Identity Property:
 $(1 \times 8) + (1 \times 5)$
- ☐ Use the Distributive Property: $(8 \times 2) + (8 \times 3)$
- ☐ Use repeated addition:
 $8 + 8 + 8 + 8 + 8$
- ☐ Use the Zero Property of Multiplication:
 $(8 \times 0) + (5 \times 0)$
- ☐ Use repeated addition:
 $5 + 5 + 5 + 5 + 5 + 5 + 5 + 5$

26. Select the correct multiplication equation for each addition equation.

	$2 \times 8 = 16$	$4 \times 4 = 16$	$9 \times 2 = 18$	$3 \times 6 = 18$
$4 + 4 + 4 + 4 = 16$	☐	☐	☐	☐
$6 + 6 + 6 = 18$	☐	☐	☐	☐
$9 + 9 = 18$	☐	☐	☐	☐
$8 + 8 = 16$	☐	☐	☐	☐

27. One box of greeting cards contains 8 cards and costs \$6. Arnold has \$54. How many boxes of greeting cards can he buy? How many greeting cards would he have?
- A 10 boxes; 80 greeting cards
 - B 10 boxes; 72 greeting cards
 - C 9 boxes; 80 greeting cards
 - D 9 boxes; 72 greeting cards
-
28. Leah has only nickels in her piggy bank. A nickel is worth 5 cents. Which could be the value of the money in Leah's piggy bank? Select all that apply.
- ☐ 25¢
 - ☐ 32¢
 - ☐ 45¢
 - ☐ 70¢
 - ☐ 86¢

29. Find the product of 2, 4, and 4.

A. What equations can you use to solve the problem? Select all that apply.

- ☐ $2 \times 4 \times 4 = 32$; I multiplied all of the numbers in the problem together.
- ☐ $2 \times (2 \times 4) = 16$; I used the Associative Property to rewrite the factors $(2 \times 2) \times 4$.
- ☐ $2 \times (4 \times 4) = 32$; I used the Associative Property to rewrite the factors $(2 \times 4) \times 4$.
- ☐ $2 \times 8 = 16$; I multiplied 2 and 4 together first to get 8, and then I multiplied 2 and 8.
- ☐ $8 \times 4 = 32$; I multiplied 2 and 4 together first to get 8, and then I multiplied 8 and 4.

B. What is the product?

30. What is the unknown number in the equation below?

$$? \div 7 = 3$$

31. Are 5×7 and 7×5 the same?

- A** No, they are not the same because of the Distributive Property.
- B** Yes, they are the same because of the Commutative Property of Multiplication.
- C** Yes, they are the same because of the Associative Property of Multiplication.
- D** No, they are not the same because they are not in the same order.

32. A. Write the fact family for 4, 8, and 32.

B. Which of the following could be used to find $32 \div 8$?

- A** $6 \times ? = 8$ **C** $32 \times 8 = ?$
- B** $8 \times ? = 32$ **D** $8 + 32 = ?$

33. A trilogy is a set of 3 books that contain the same characters. Michael owns 9 trilogies. How many books does he own? Tell which operation you use. Then solve the problem.

34. Which expressions are equivalent to $56 \div 7$? Select all that apply.

- ☐ $2 \times 2 \times 2$
- ☐ 2×3
- ☐ 3×5
- ☐ $64 \div 4$
- ☐ $72 \div 9$

35. Mavis is making a tile pattern in the shape of a rectangle. The length is 9 inches and the width is 1 inch.

A. What is the area of the pattern?

- B.** How could Mavis change her rectangle tile pattern into a square tile pattern so that it will have the same area as the rectangle?

-
- 36.** A bakery sells rolls in boxes. There are 9 rolls in each box. Which numbers could be the total number of rolls in the boxes? Select all that apply.

- ☐ 3
☐ 9
☐ 27
☐ 37
☐ 54

- 37.** Which of the following expressions is equal to $2 \times 3 \times 3$? Select all that apply.

- ☐ $(2 \times 3) \times 3$; I used the Associative Property of Multiplication.
☐ 5×3 ; I used the Identity Property of Multiplication.
☐ $3 \times 2 \times 3$; I used the Associative Property of Multiplication.
☐ $2 \times (3 \times 3)$; I used the Associative Property of Multiplication.
☐ $2 \times (3 + 3)$; I used the Distributive Property.

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- 38.** Marty writes the following:

$$28 - 7 = 21$$

$$21 - 7 = 14$$

$$14 - 7 = 7$$

$$7 - 7 = 0$$

Which equation could Marty use to represent what he wrote?

- A** $28 \div 7 = 4$
B $7 \times 7 = 49$
C $7 \div 7 = 1$
D $7 \times 4 = 28$

39. A. Use the Distributive Property to find the missing factors.

$$7 \times \underline{\hspace{1cm}} = (4 \times 9) + (\underline{\hspace{1cm}} \times 9)$$

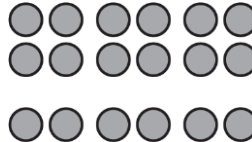
- B. Rewrite the expression found in **Part A** using a different property. Identify the property used.

- A 3×9 ; Associative Property of Multiplication
- B 9×7 ; Commutative Property of Multiplication
- C 9×3 ; Commutative Property of Multiplication
- D 7×9 ; Associative Property of Multiplication

-
40. Which equation can be used to solve $0 \div 7$?

- A $7 \times 0 = ?$
- B $7 + ? = 0$
- C $0 \times ? = 7$
- D $7 \times ? = 0$

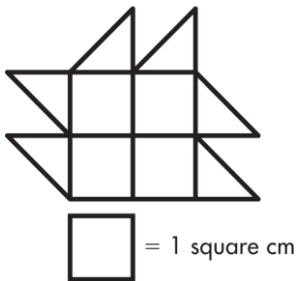
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41. Cloe wants to make 6 bracelets. Each bracelet needs 3 charms. Cloe arranged the charms in two arrays.



Which expression can be used to find the total number of charms?

- A 4×24
- B $(2 \times 6) + (1 \times 6)$
- C $(6 \times 2) + (6 \times 2)$
- D $(2 \times 8) + (1 \times 8)$

42. Louise made the shape from tiles. What is the area of the shape? Explain.



-
43. Solve $272 + 311 - 129$.

- 44.** Use the multiplication table to find $16 \div 8$.
Draw a triangle around the product. Draw a square around the divisor.
Circle the missing factor. Then complete the equation.
 $16 \div 8 = \underline{\hspace{2cm}}$

X	0	1	2
0	0	0	0
1	0	1	2
2	0	2	4
3	0	3	6
4	0	4	8
5	0	5	10
6	0	6	12
7	0	7	14
8	0	8	16
9	0	9	18
10	0	10	20

- 45. A.** A rectangular garden has an area of 30 square feet. Which of the following are possible side lengths of the garden? Select all that apply.

- ☐ 15 feet by 2 feet
☐ 6 feet by 4 feet
☐ 5 feet by 5 feet
☐ 5 feet by 6 feet
☐ 2 feet by 12 feet

- B.** Which expressions use the Distributive Property to represent the area of the garden? Select all that apply.

- ☐ $(3 \times 5) + (3 \times 3)$
☐ $(5 \times 3) + (5 \times 2)$
☐ $(5 \times 2) + (5 \times 4)$
☐ $(2 \times 5) + (2 \times 10)$
☐ $(4 \times 5) + (3 \times 5)$

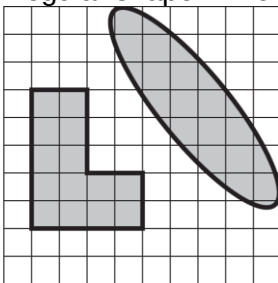
- 46.** Which of the following show a correct estimation? Select all that apply.

- ☐ $832 + 712$ is about 1,600.
☐ $569 + 322$ is about 900.
☐ $337 + 464$ is about 900.
☐ $176 + 294$ is about 500.
☐ $37 + 411$ is about 500.

47. The third-grade classes are collecting cans of food for a food drive. Select all of the statements that are true.



- ☐ The classes brought in about 170 cans total.
 - ☐ Class B brought in the most cans.
 - ☐ Class A brought in 20 more cans than Class C.
 - ☐ Class B brought in more cans than Classes A and C combined.
 - ☐ Class D brought in about 45 cans.
48. William reads 3 fiction books and 2 nonfiction books each month. How many books does William read in 9 months? Write an equation with an unknown to represent the problem
49. Nicole says these shapes have the same area. Cole says the oval has a larger area than the irregular shape. Who is correct? Explain.



50. Which of the following is equal to 800 when rounded to the nearest hundred? Select all that apply.

- ☐ 730
- ☐ 759
- ☐ 839
- ☐ 850
- ☐ 851

51. Use the subtraction work shown. $507 - 149 = 458$
Which strategy shows a way to check the work using inverse operations?

- A Subtract 149 from 458.
- B Add 458 and 149.
- C Add 458 and 507.
- D Subtract 150 from 500.

52. Rob wants spend exactly \$70 on clothes. He wants to buy at least 3 shirts. Complete the picture graph and write an equation to show one combination of items Rob could purchase.

Clothing Purchased	
Shirts (\$10 each)	
Socks (\$6 per pair)	
Ties (\$7 each)	
Each ▲ = 2 items. Each ▴ = 1 item.	

53. Solve $90 \div 9$.

A 1
B 9
C 8
D 10

54. Which is an example of using mental math to compute $634 - 578$?

A $630 - 570 = 60$
B $636 - 580 = 56$
C $630 - 580 = 50$
D $635 - 580 = 55$

55. Phillip asked 100 people to vote on their favorite picnic food. Make a bar graph to show the data.

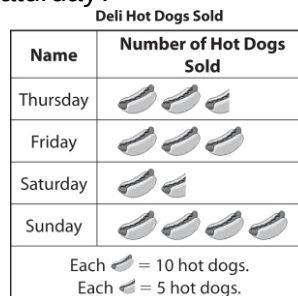
Favorite Picnic Food

Hamburger	35
Sandwich	23
Salad	15
Watermelon	27

56. Reilly adds $9 + 7$ and says the sum is 15. Without finding the exact answer, explain why Reilly's answer is incorrect, using addition patterns.

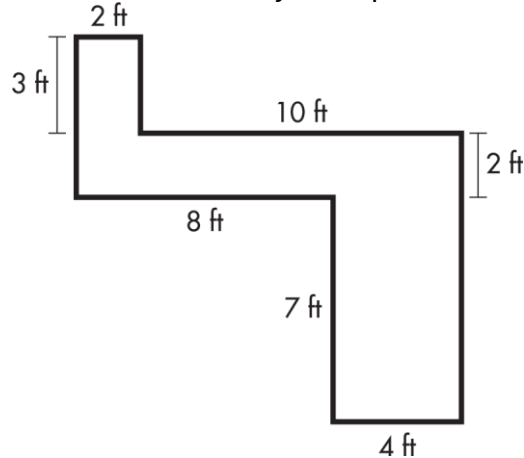
57. The picture graph shows the number of hot dogs sold at a deli. How many more hot dogs were sold on Sunday than on Saturday?

A 40 hot dogs
B 35 hot dogs
C 25 hot dogs
D 10 hot dogs



58. Alicia wrote a division story. She wrote that there are 48 buttons divided into equal groups. What other information must she give about the groups?

59. A. Select all of the ways to represent the area of the figure.



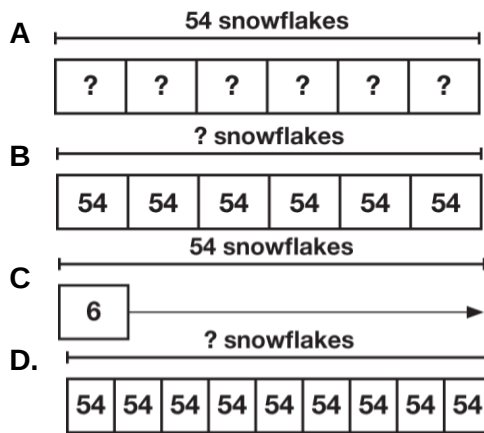
- ☐ $(2 \times 3) + (10 \times 4) + (4 \times 4)$
☐ $(2 \times 3) + (8 \times 2) + (9 \times 4)$
☐ $6 + 16 + 36$
☐ $6 + 40 + 36$
☐ $(2 \times 2) + (10 \times 2) + (9 \times 4)$

- B. Find the area of the figure.

60. Use the multiplication table to explain how 3×2 and 6×2 are related.

X	0	1	2
0	0	0	0
1	0	1	2
2	0	2	4
3	0	3	6
4	0	4	8
5	0	5	10
6	0	6	12
7	0	7	14
8	0	8	16

61. Al made 54 snowflakes. He uses the snowflakes to decorate 6 windows. He puts the same number of snowflakes in each window. Which bar diagram shows how many snowflakes Al will put in each window?



62. Round 474 and 438 to the nearest ten to estimate the sum.

63. Malcolm collected the data of favorite ice cream flavors shown below.

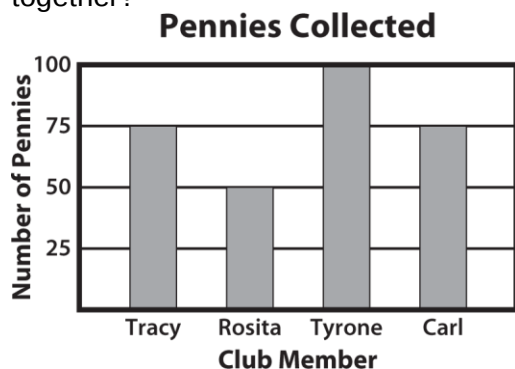
Choc.	Straw	Vanilla	Vanilla
Straw.	Choc.	Choc.	Straw.
Vanilla	Vanilla	Choc.	Choc.

Malcolm decided to make a picture graph of the ice cream data. Which key should he use?

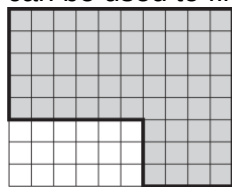
- A Each  = 2 people
Each  = 1 person
- B Each  = 10 people
- C Each  = 20 people
- D Each  = 2 scoops
Each  = 1 scoop
64. Heidi earns \$4 for every basket of apples she picks. Sienna earns \$8 per hour babysitting. How many baskets of apples does Heidi need to pick to earn the same amount that Sienna earns for 3 hours of babysitting?
- A 5
- B 6
- C 7
- D 8
65. Round 532 to the nearest ten and then to the nearest hundred.

66. Brad is making a fort out of cardboard boxes. He measured two sides of the rectangular floor of his fort. One side is 12 feet long and the other side is 2 feet long.
- A. Which of these shows how the Distributive Property could be used to find the area of the floor?
- A $(4 \times 2) + (6 \times 2)$
 - B $(4 + 3) \times (4 + 3)$
 - C $(2 + 3) \times (2 + 3)$
 - D $(6 \times 2) + (6 \times 2)$
- B. What is the area of the floor?
- A 10 square feet
 - B 20 square feet
 - C 24 square feet
 - D 36 square feet

67. Tracy made a bar graph to record the number of pennies collected by each member of a neighborhood club. How many fewer pennies did Tyrone collect than Rosita and Carl together?



68. A. Mr. Martinez is carpeting his daughter's dollhouse as shown below. Which expressions can be used to find how many square inches of carpet he needs? Select all that apply.



Each = 1 square inch of carpet

- ☐ $(5 \times 10) + (3 \times 4)$
- ☐ $(8 \times 4) + (5 \times 6)$
- ☐ $(8 \times 10) - (3 \times 6)$
- ☐ $(3 \times 4) \times (5 \times 10)$
- ☐ $(6 \times 5) + (4 \times 8)$

- B. Is there another expression that can be used to find how many square inches of carpet Mr. Martinez will need? Explain.

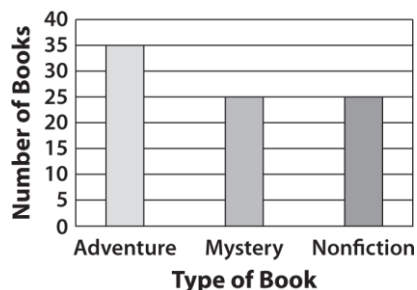
69. Which multiplication fact can help you solve the division equation below?

$$50 \div 5 = ?$$

- A $5 \times 10 = 50$
- B $5 \times 50 = 250$
- C $2 \times 20 = 40$
- D $5 \times 9 = 45$

70. Nick, Trina, and Kat read books over the summer. They made a bar graph to show the number of each type of book they read. What is the total number of books they read?

**Books We Read
This Summer**



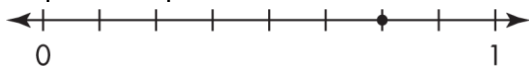
- A 75
- B 80
- C 85
- D 90

71. Find the sum of 357 and 438.

72. Marlene has \$64. She needs to buy 7 packages of copy paper. Each package costs \$10. She thinks, "7 times \$10 is \$70, which is close to \$64. I will have enough money." Is Marlene's answer reasonable? Select the best answer.

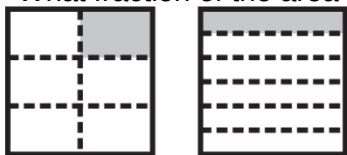
- A Yes, she only needs \$70.
- B Yes, her estimate is close, so she has enough money.
- C No, her estimate is more than the amount she actually has to spend.
- D All of the above are correct.

73. Kip drew a point on the number line below. What fraction should he use to label the point?



- A $\frac{1}{8}$
- B $\frac{4}{8}$
- C $\frac{6}{8}$
- D $\frac{7}{8}$

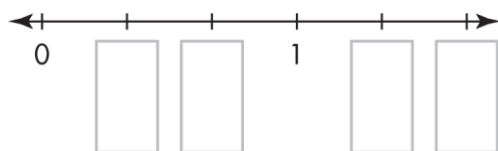
74. What fraction of the area is shaded in each figure below?



- A $\frac{1}{4}$ and $\frac{1}{6}$
B $\frac{1}{6}$ and $\frac{1}{5}$
C $\frac{1}{6}$ and $\frac{1}{6}$
D $\frac{1}{6}$ and $\frac{1}{8}$

75. Lenny's goal is to collect 500 tabs from cans to recycle. One month he collects 217 tabs and the next month he collects 186 tabs. How many more tabs does Lenny need to collect? Write equations to represent the number of tabs he still needs to collect.

76. The number line has equal lengths marked. Write the missing fractions. Explain your answers.



77. Sergio and Audrey are each solving 6×20 . Whose method is correct? Select the best answer.

Sergio

$$6 \times 20 = 6 \times (2 \times 10)$$

$$6 \times 20 = (6 \times 2) \times 10$$

$$6 \times 20 = 12 \times 10$$

$$6 \times 20 = 120$$

Audrey

$$6 \times 20 = (3 + 3) \times 20$$

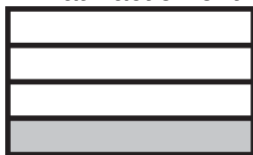
$$6 \times 20 = (3 \times 20) + (3 \times 20)$$

$$6 \times 20 = 60 + 60$$

$$6 \times 20 = 120$$

- A Sergio's method is correct.
B Audrey's method is correct.
C Both methods are correct.
D Neither method is correct.

78. What fraction of the rectangle is gray?



A $\frac{1}{4}$

C $\frac{3}{4}$

B $\frac{2}{4}$

D $\frac{4}{4}$

79. What is 218 less than 350? Write an equation and solve.

80. The Harris family wants to give \$10 to each of 5 charities.

A. Which expression represents the total amount of money they will give to the 5 charities?

A $\$10 \div 5$

B $\$10 - 5$

C $\$10 + 5$

D $\$10 \times 5$

B. The Harris family convinces the Slater family to make \$10 donations as well. Both families together donate \$90 total to charities. How many charities did the Slater family donate to?

A 2

B 3

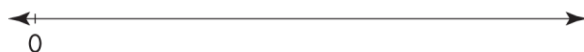
C 4

D 5

81. A. On the open number line, show 4×60 .



On the open number line, show 6×40 .



B. Explain how the two number lines are alike and how they are different.

82. Lisa measured the lengths of her pencils to the nearest fourth inch and listed their lengths. Make a line plot that displays the lengths of Lisa's pencils.

$6\frac{1}{4}$ inches, $5\frac{3}{4}$ inches, $7\frac{2}{4}$ inches, 6 inches,

$5\frac{2}{4}$ inches, $7\frac{2}{4}$ inches, 6 inches,

$5\frac{3}{4}$ inches, $6\frac{1}{4}$ inches, 7 inches

83. What is the sum of 189, 436, and 202?

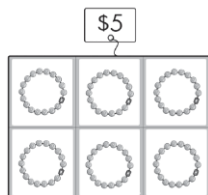
84. Andy is making a line plot to show the data below.

A. Which numbers will get 3 dots above them?

3rd Grader Heights (in inches)				
47	50	49	53	47
48	44	48	50	52
51	55	52	47	48
48	53	52	50	46

- A 48 and 49 C 50, 52, and 53
 B 47 and 49 D 47, 50, and 52
- B. How many more dots will 48 inches have than 44 inches?
 A 1 C 3
 B 2 D 4

85. Party favors come in packages of 6. How much would it cost to buy 42 party favors? Use a letter to represent each unknown quantity, and write an equation to solve.



86. Chelsea's family is driving to visit her grandparents. They drive about 60 miles each hour. They drive for 3 hours. About how many miles does Chelsea's family drive?
 A About 8 miles
 B About 60 miles
 C About 180 miles
 D About 240 miles
87. There are 6 students in a group. Two are wearing a red shirt. Two are wearing a blue shirt. The rest are wearing white shirts. What fraction of the students are wearing a white shirt?

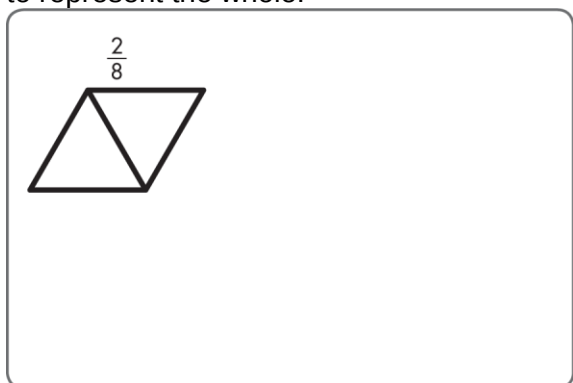
88. What is the difference between 437 and 153? Explain how to break apart the problem to solve.
89. Explain how to regroup to subtract $503 - 284$.

90. Alex is making wreaths to sell at a craft fair. She is choosing whether to make 30, 40, 50, or 60 wreaths. She is also choosing whether to use 4, 6, or 8 holly berries in each wreath. Fill in the missing products in the table to show how many holly berries Alex will need for each choice.

$\times$	30	40	50	60
4	120			
6	180	240		
8				480

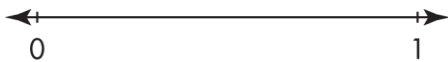
91. Drake needs to be at his job by 7:00 P.M. It takes him 30 minutes to ride his bike to the job, 60 minutes to make and eat dinner, and 50 minutes to do chores. What time does Drake need to start his chores?
- A 4:20 P.M.
 B 4:40 P.M.
 C 5:05 P.M.
 D 5:40 P.M.

92. Draw a picture and write a fraction to represent the whole.



93. Which equation shows the Associative Property of Multiplication?
- A $3 \times 2 = (2 \times 2) + (1 \times 2)$
 B $(3 \times 2) \times 8 = 3 \times (2 \times 8)$
 C $3 \times 2 \times 1 = 3 \times 2$
 D $3 \times 2 \times 0 = 0$

-
94. Divide the number line into equal lengths and label the point $\frac{3}{5}$.



95. Find the difference for $861 - 384$. Explain how to solve the problem.

-
96. A. Three friends equally share 1 hour of time on a computer at the library. What fraction of an hour will each friend use the computer?

A $\frac{3}{1}$

B $\frac{2}{3}$

C $\frac{3}{3}$

D $\frac{1}{3}$

- B. If two more friends join the group, what fraction of an hour will each friend have to use the computer?

A $\frac{1}{5}$

B $\frac{2}{3}$

C $\frac{1}{6}$

D $\frac{5}{1}$

-
97. Explain how to break apart $483 + 316$ and solve.

98. Kelly is decorating her room with a mirror and 3 decals. If the mirror costs \$12 and the decals are \$7 each, how much will Kelly spend?

-
99. Which shapes always have two pairs of sides on lines that never cross? Select all that apply.

☐

Square

☐

Parallelogram

☐

Rectangle

☐

Rhombus

☐

Trapezoid

-
100. Find the sum of 60 and 150.