Name: _____

AMDG

The School of the Cathedral of Mary Our Queen

INCOMING 3rd Grade Summer Work Packet

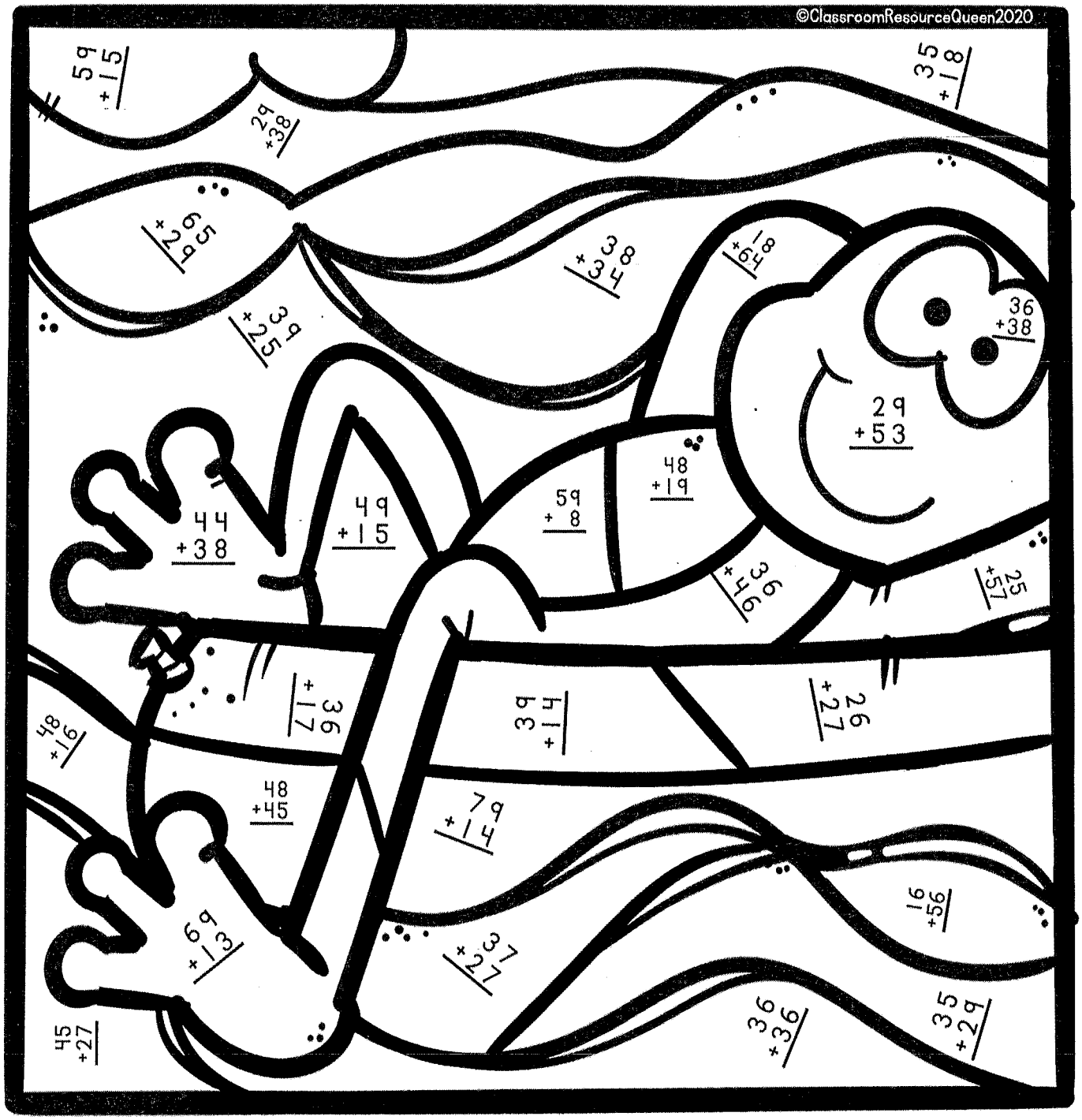
Due Thursday, August 31st 2023

2-Digit Addition with Regrouping

NAME: _____

Solve the addition problems.

Color the picture using the code at the bottom.



94 = PURPLE

74 = WHITE

53 = PINK

67 = YELLOW

82 = GREEN

93 = GRAY

72 = BLUE

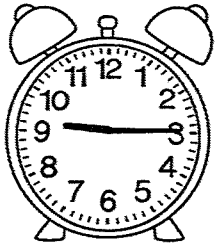
64 = LIGHT BLUE

Telling Time
nearest 5 minutes

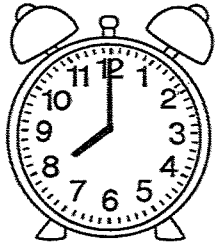
Name: _____

Draw a line from the camp activity in the middle to the clock that shows the time of the activity. The clocks with the matching times for the morning schedule are on the left, and the clocks for the afternoon schedule are on the right.

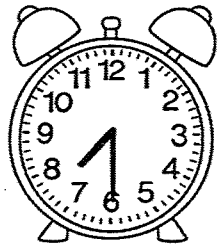
Morning Schedule



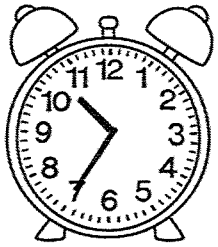
Wake Up
7:30



Breakfast
8:00

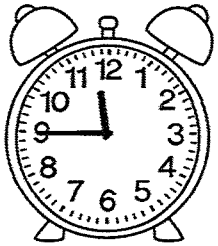


Archery
9:15

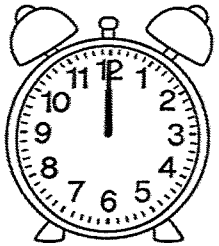


Outside Sports
10:35

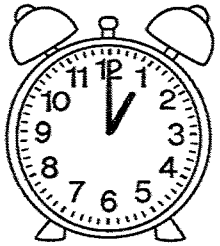
Painting/Art
11:45



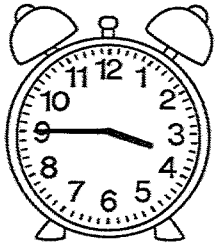
Lunch
12:00



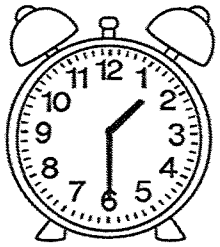
Afternoon Schedule



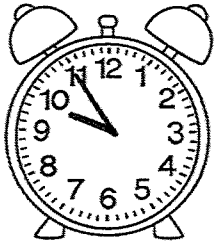
Break
1:00



Swimming
1:30

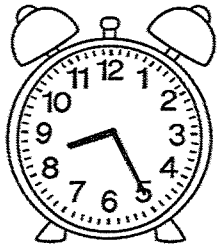


Horseback Riding
3:45

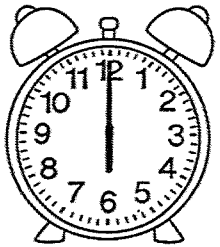


Dinner
6:00

Camp Fire
8:25



Lights Out
9:55

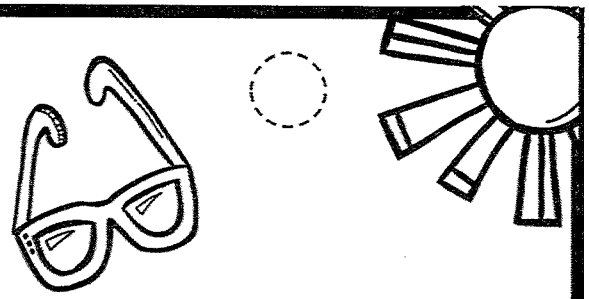


Comparing Numbers

Name: _____

- Compare each set of numbers by filling the blank with the symbol that makes the statement true (< or >).
- Circle the greater number in each pair..
- Use the letter under each of the greater numbers to find the answer to the secret message.
- Cut the secret message part away from the page to create a bookmark!

1. 177 (M) ____ 169 (A)
2. 519 (H) ____ 555 (I)
3. 399 (R) ____ 401 (E)
4. 796 (S) ____ 845 (P)
5. 890 (R) ____ 845 (S)
6. 637 (L) ____ 367 (P)
7. 506 (K) ____ 500 (E)
8. 367 (H) ____ 297 (T)
9. 929 (R) ____ 939 (T)
10. 237 (A) ____ 137 (M)
11. 367 (E) ____ 385 (U)
12. 105 (L) ____ 110 (S)

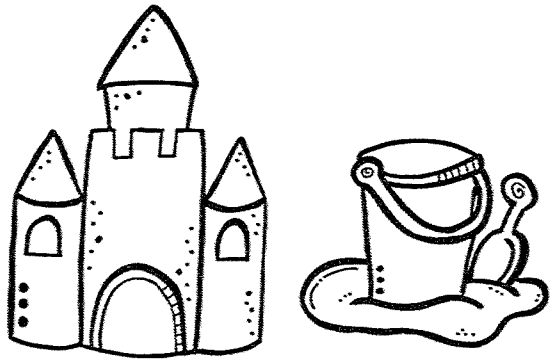


177 237 506 401 237

110 845 637 237 110 367

939 367 555 110

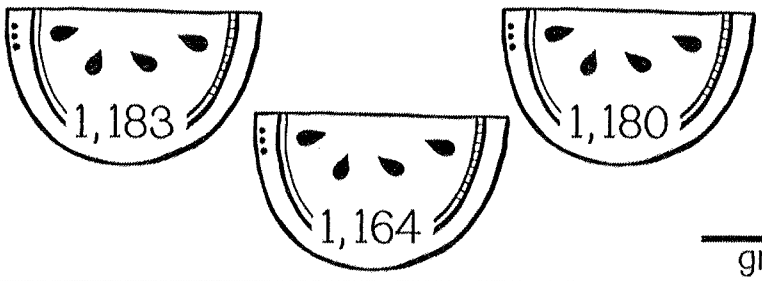
110 385 177 177 401 890



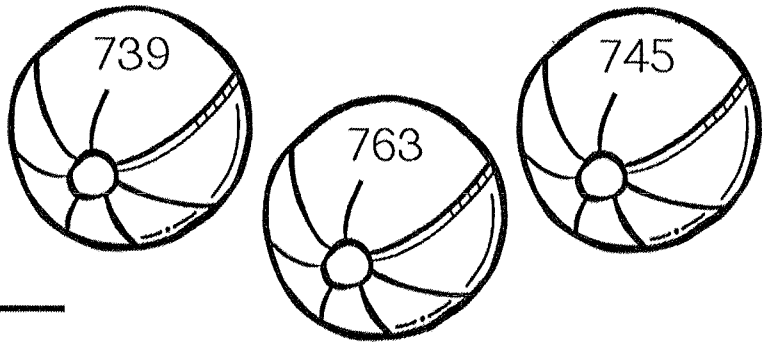
Ordering Numbers To 1,200

Name: _____

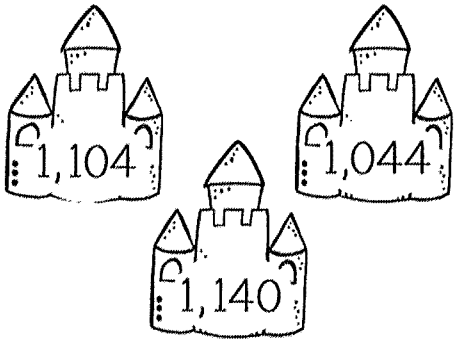
Order the numbers shown on the objects.



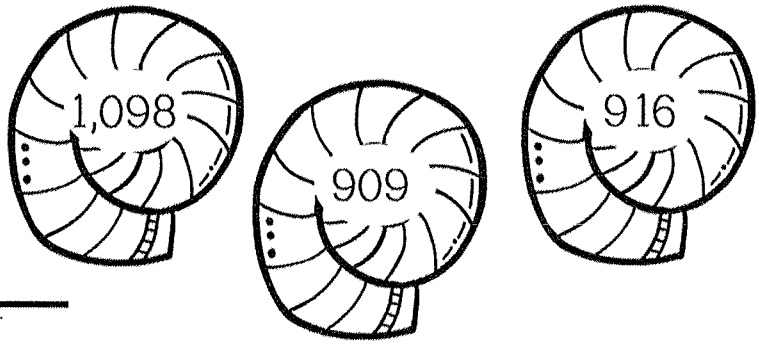
_____ greatest , _____ , _____ least



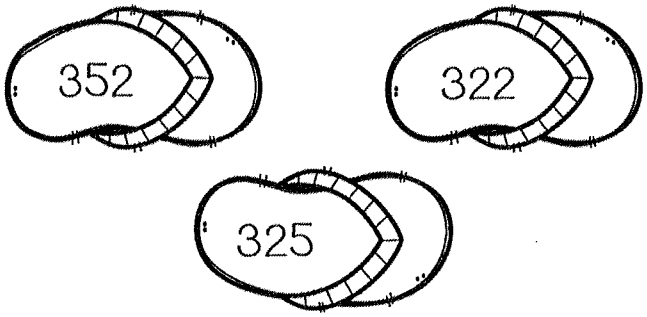
_____ greatest , _____ , _____ least



_____ least , _____ , _____ greatest



_____ greatest , _____ , _____ least



_____ least , _____ , _____ greatest

Color the sums and differences BLUE

1. 13+30= _____
2. 54-20= _____
3. 10+15= _____
4. 42+10= _____
5. 41-20= _____
6. 53-50= _____
7. 72-40= _____
8. 3+20= _____
9. 44-40= _____
10. 64-10= _____
11. 15-10= _____
12. 30+11= _____
13. 12-10= _____
14. 31-30= _____
15. 42-30= _____
16. 63-10= _____
17. 20+31= _____
18. 75-20= _____
19. 35+10= _____
20. 10+4= _____

Name: _____

- Use Mental Math strategies to add or subtract the multiple of ten.
- Color the sum or difference the color at the top of the box to find the mystery picture!

Color the sums and differences RED

1. 86-30= _____
2. 30+30= _____
3. 10+69= _____
4. 10+86= _____
5. 107-10= _____
6. 60+39= _____
7. 109+10= _____
8. 6+10= _____
9. 42+30= _____
10. 105-30= _____
11. 30+63= _____
12. 70+30= _____
13. 40+40= _____
14. 66-30= _____
15. 98-40= _____
16. 74+20= _____
17. 47+10= _____
18. 10+10= _____
19. 94-20= _____
20. 20+58= _____
21. 30+8= _____
22. 30+61= _____
23. 102+10= _____
24. 19+20= _____
25. 105-10= _____
26. 70-30= _____
27. 112-20= _____
28. 84+30= _____
29. 93-20= _____
30. 103+10= _____
31. 37-20= _____
32. 66+50= _____
33. 130-10= _____
34. 19+40= _____
35. 26+50= _____
36. 65+50= _____
37. 67-30= _____
38. 101+10= _____
39. 87-10= _____
40. 49-30= _____
41. 1+70= _____
42. 108-10= _____
43. 107+10= _____
44. 48-30= _____
45. 98+20= _____

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

Adding Multiple 2-Digit Numbers

Name: _____

Add each set of numbers to find the **sum**. Use the sum to fill in the secret code on the right and find some fun things to do this summer. Then, check the box beside your favorite activity!

45 16 3 +10 N=	13 22 47 +11 W=	33 6 14 + 4 A=	20 13 21 + 6 I=	15 12 13 +11 G=
32 8 14 +24 S=	1 29 24 +11 Y=	55 4 26 + 3 O=	4 13 3 +18 V=	15 16 6 +10 M=
60 20 3 + 6 L=	25 31 4 + 6 C=	10 11 5 + 3 E=	27 23 21 +26 T=	33 30 5 +13 P=

What is your favorite thing to do in the summer?

☐ ___ ___ ___ ___
78 93 60 47

☐ ___ ___ ___ ___ ___ ___ ___ ___ ___
51 88 66 57 47 81 60 74 51

☐ ___ ___ ___ ___ ___ ___
47 88 38 60 29 78

☐ ___ ___ ___ ___ ___ ___ ___ ___ ___
81 89 57 65 51 57 47 29 78

☐ ___ ___ ___ ___ ___ ___ ___ ___ ___
78 89 29 29 81 89 57 97 29

☐ ___ ___ ___ ___ ___ ___ ___ ___
38 57 66 57 97 60 88 74

Ways to Make a Number

Each box shows an addition sentence that is solved for you. Look at the two addition sentences below each box. Select the one that shows another way to make the sum from the first addition sentence. Use the letter beside the addition fact with the same sum to fill in the secret code and discover things that you might see at the beach! The first one is done for you!

22+56=78	38+45=83	44+15=59	71+24=95
D 33+45	S 56+34=90	S 23+36	A 82+13
E 28+26	R 21+62=83	B 43+39	I 72+25
20+19=39	52+12=64	12+30=42	16+38=54
C 15+25	F 35+29	C 18+24	E 25+31
T 25+14	H 41+26	T 15+31	H 27+27
47+15=62	38+39=77	36+55=91	55+30=85
B 19+27	T 28+42	B 72+19	N 33+45
L 29+33	E 52+25	I 34+64	U 45+40
13+45=58	24+17=41	31+37=68	
N 29+29	G 19+22	I 23+45	
E 31+25	N 35+8	S 28+26	

Things You Might See at the Beach

☐ _ _ _ D
59 95 58 78

☐ _ _ R _ _ _ _
59 85 83 64 68 58 41

☐ _ _ _ _ _ _ _
42 95 59 39 62 77 59

☐ _ _ _ _ _
91 77 95 42 54

_ _ _ _ _
91 95 62 62 59

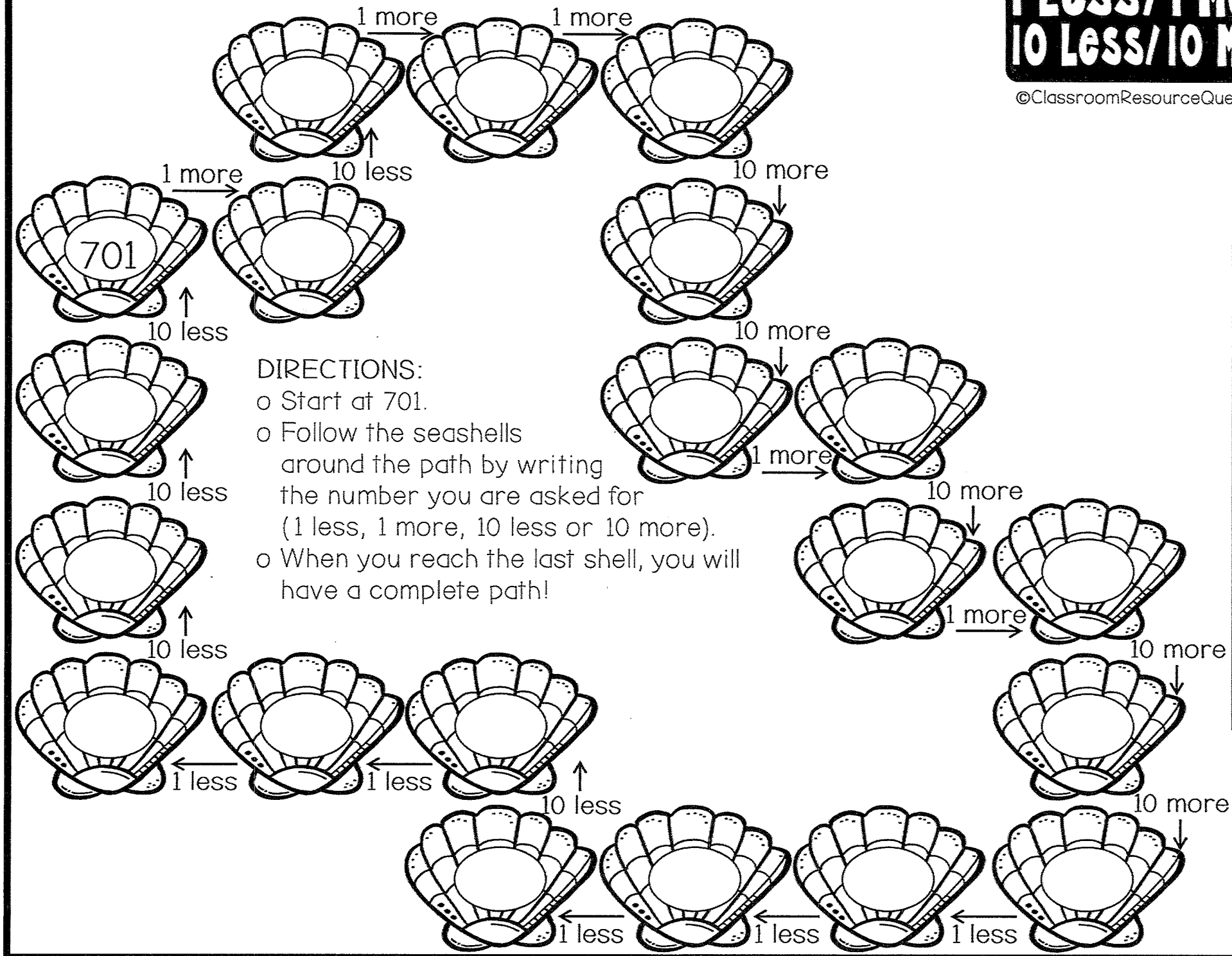
☐ _ R _ _ _
42 83 95 91 59

☐ _ _ _ _
64 68 59 54

Name: _____

1 Less/ 1 More
10 Less/ 10 More

Name: _____



DIRECTIONS:

- Start at 701.
- Follow the seashells around the path by writing the number you are asked for (1 less, 1 more, 10 less or 10 more).
- When you reach the last shell, you will have a complete path!

counting coins

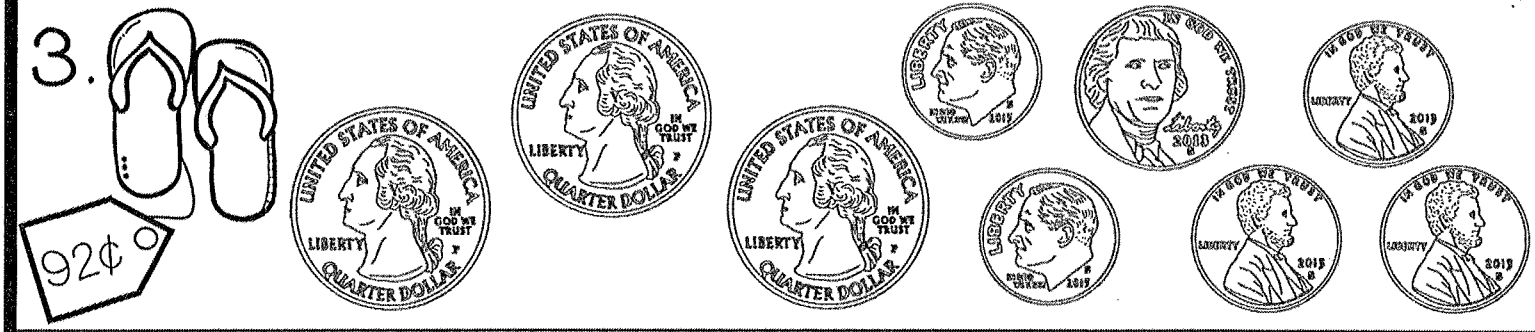
Name: _____

Color the coins you could use to buy each item.

1.

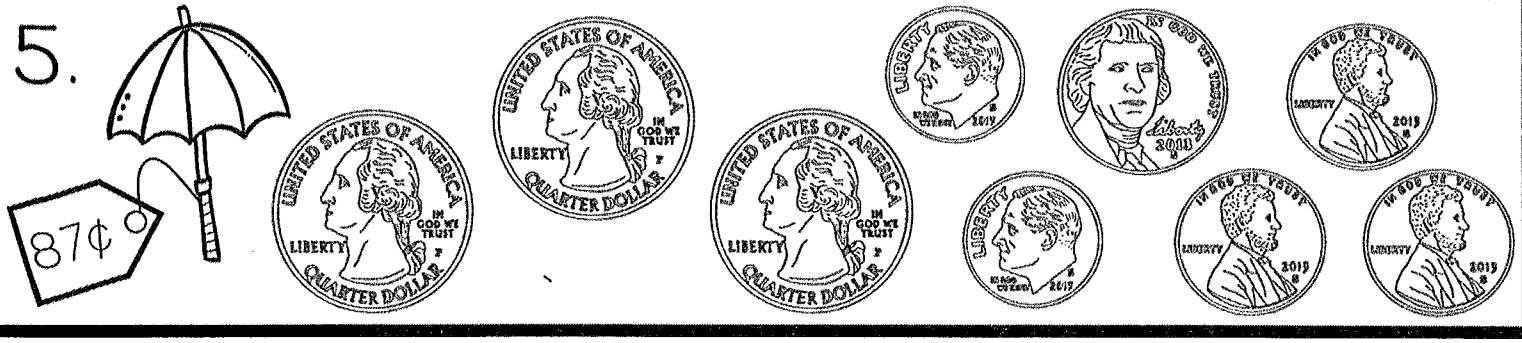
2.

3.



4.

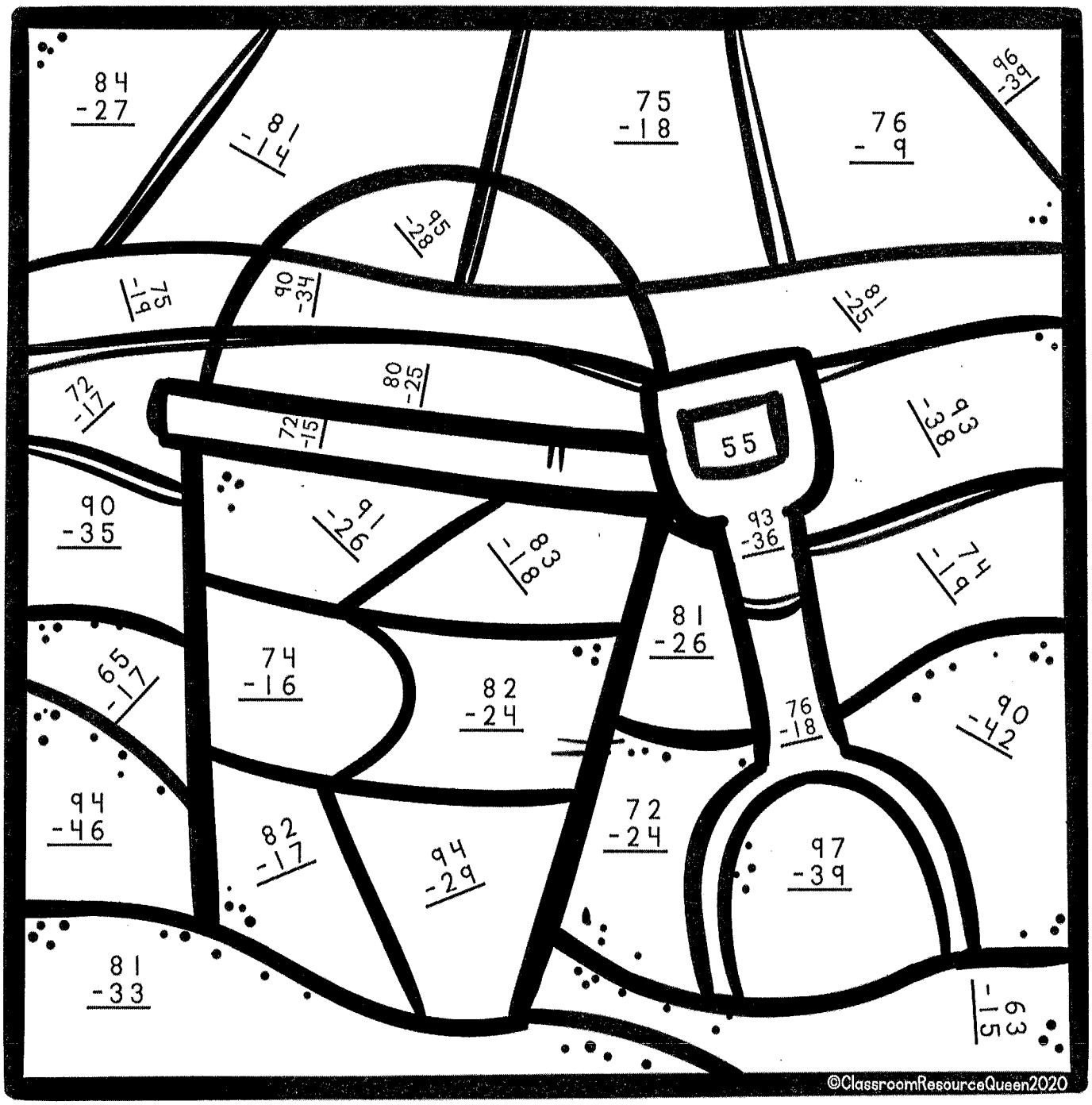
5.



2-Digit Subtraction with Regrouping

NAME: _____

Solve the addition problems.
Color the picture using the code at the bottom.



56 = BLUE

55 = LIGHT BLUE

58 = GREEN

57 = YELLOW

65 = RED

67 = ORANGE

48 = TAN

Adding 3-Digit Numbers

Name: _____

Practice Adding 3-Digit Numbers with Regrouping!

1. □□
   4 8 6
   + 2 3 7
   _____

2. □□
   1 3 5
   + 5 4 7
   _____

3. □□
   2 5 3
   + 4 5 8
   _____

4. □□
   1 6 7
   + 1 3 5
   _____

5. □□
   3 6 6
   + 2 6 8
   _____

6. □□
   1 3 7
   + 3 3 8
   _____

7. □□
   3 6 3
   + 2 8 9
   _____

8. □□
   1 4 1
   + 1 5 8
   _____

9. □□
   1 7 5
   + 1 5 8
   _____

10. □□
    3 4 4
    + 1 8 1
    _____

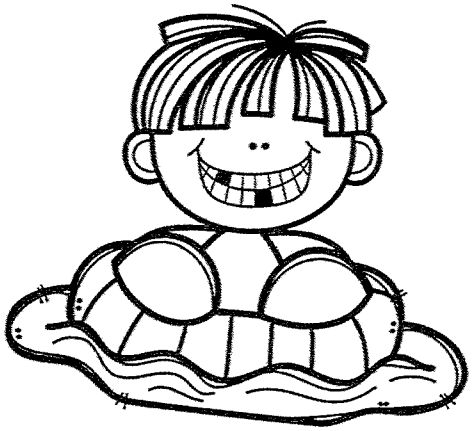
11. □□
    2 6 8
    + 1 3 6
    _____

12. □□
    1 2 2
    + 1 3 2
    _____

13. □□
    6 3 5
    + 1 3 5
    _____

14. □□
    2 4 9
    + 4 2 9
    _____

15. □□
    5 1 1
    + 1 9 5
    _____



Subtract 3-Digit Numbers

Name: _____

Practice Adding 3-Digit Numbers with Regrouping!

1. 3 | 12 | ☐
   ~~4~~ ~~2~~ 7
   -1 7 5
   2 5 2

2. ☐☐☐
   6 7 2
   -4 6 7

3. ☐☐☐
   6 7 7
   -2 9 3

4. ☐☐☐
   8 4 5
   -4 1 8

5. ☐☐☐
   8 9 1
   -5 5 3

6. ☐☐☐
   6 4 4
   -3 6 2

7. ☐☐☐
   4 4 4
   -2 0 7

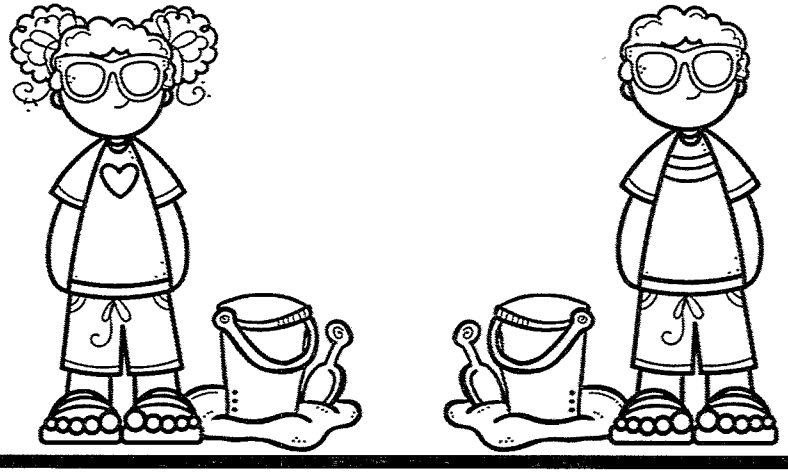
8. ☐☐☐
   6 7 4
   -1 3 8

9. ☐☐☐
   9 8 6
   -2 2 8

10. ☐☐☐
    4 2 9
    -1 4 1

11. ☐☐☐
    7 3 7
    -4 4 3

12. ☐☐☐
    5 4 5
    -5 2 6



13. ☐☐☐
    8 6 5
    -2 5 7

14. ☐☐☐
    9 0 9
    -3 5 4

15. ☐☐☐
    7 3 5
    -3 6 2

Name _____

Lesson 2
Multiplication as Repeated Addition

ESSENTIAL QUESTION
What does multiplication mean?

There are many ways to find the total when there are groups of equal objects.

Real World Math in My World

Watch Tutor

Example 1

Gilberto made 4 small pizzas for his party. Each pizza had 5 slices of tomato. How many slices of tomato did Gilberto use to make 4 small pizzas?

Find how many slices of tomato there are in 4 groups of 5.

One Way Draw a picture.

1. There are _____ groups. Draw 4 pizzas.
2. There are _____ in each group. Draw 5 slices of tomato on each pizza.
3. Count. There are _____ slices of tomato.

Another Way Use repeated addition.
Write an addition sentence to show the equal groups.

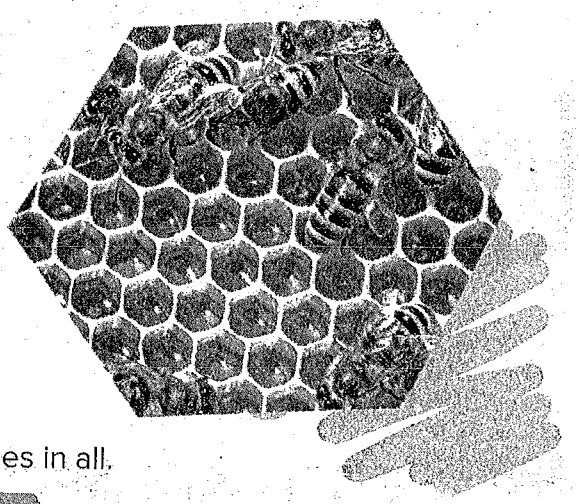
_____ + _____ + _____ + _____ = _____

So, _____ groups of _____ is _____.

Gilberto used _____ slices of tomato.

When you find the total of equal groups of objects, you **multiply**.
The symbol (×) means to multiply. The numbers multiplied are **factors**.
The result is the **product**.

Example 2

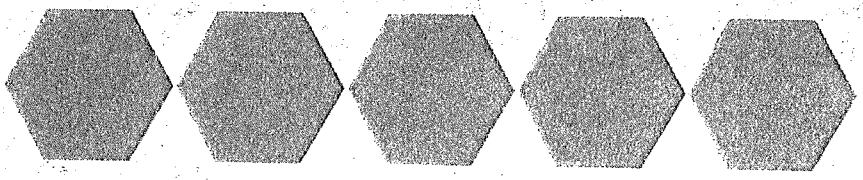


A honeycomb cell has 6 sides. How many sides do 5 separated honeycomb cells have?

Find 5 groups of 6.

One Way **Write an addition sentence.**

Use five 6-sided pattern blocks. Count the number of sides in all.



_____ + _____ + _____ + _____ + _____ = _____

Another Way **Write a multiplication sentence.**

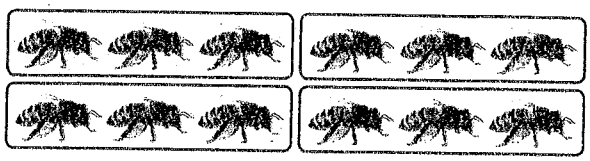
number of cells (groups)		number of sides		total
factor	×	factor	=	product

Find the unknown, or missing value.

So, _____ groups of 6 is _____. The unknown is _____ sides.

Guided Practice

1. Write an addition sentence and a multiplication sentence.



_____ + _____ + _____ + _____ = _____

_____ × _____ = _____

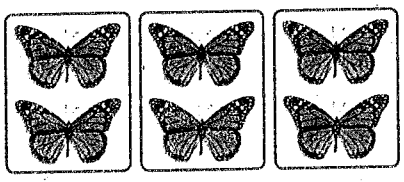
Talk MATH

Can you write 2 + 3 + 4 = 9 as a multiplication sentence? Explain.

Name _____

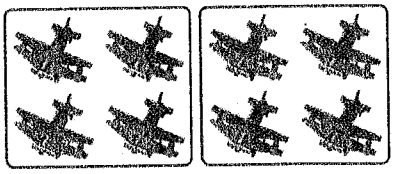
Independent Practice

Write an addition sentence and a multiplication sentence for each.

2. 

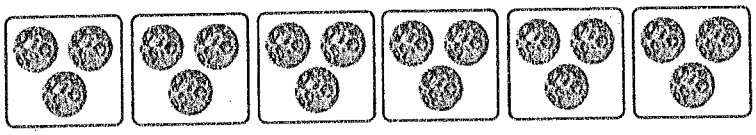
___ + ___ + ___ = ___

___ × ___ = ___

3. 

___ + ___ = ___

___ × ___ = ___

4. 

___ + ___ + ___ + ___ + ___ + ___ = ___

___ × ___ = ___

5. 

___ + ___ + ___ + ___ + ___ + ___ + ___ + ___ = ___

___ × ___ = ___

Draw a picture to find the total. Write a multiplication sentence.

6. 6 groups of 5

___ × ___ = ___

7. 8 groups of 4

___ × ___ = ___

Algebra Multiply to find the unknown product.

8. 3 × 5 = ■

The unknown is ___.

9. 5 × 2 = ■

The unknown is ___.

10. 3 × 3 = ■

The unknown is ___.

Real World Problem Solving

Algebra Write a multiplication sentence with a symbol for the unknown. Then solve.

11. Adriano bought 3 boxes of paints. Each box has 8 colors. What is the total number of colors?

$3 \times 8 = \square$

$3 \times 8 =$ _____ colors

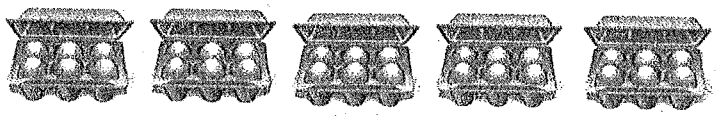
12. Three boys each have 5 balloons. How many balloons do they have all together?

_____ × _____ = $\square$

_____ × _____ = _____ balloons

Brain Builders

13. Processes & Practices 4 **Model Math** Write a real-world problem for the model. Write a multiplication sentence to find the total.



_____

_____

14. Processes & Practices 2 **Use Number Sense** What is 9 more than 5 groups of 3? How many groups of 4 can you make with that number?

_____

15. **Building on the Essential Question** How are multiplication and repeated addition alike? Give an example.

_____

Name .....

MY Homework

Lesson 2

Multiplication as Repeated Addition

Homework Helper

eHelp

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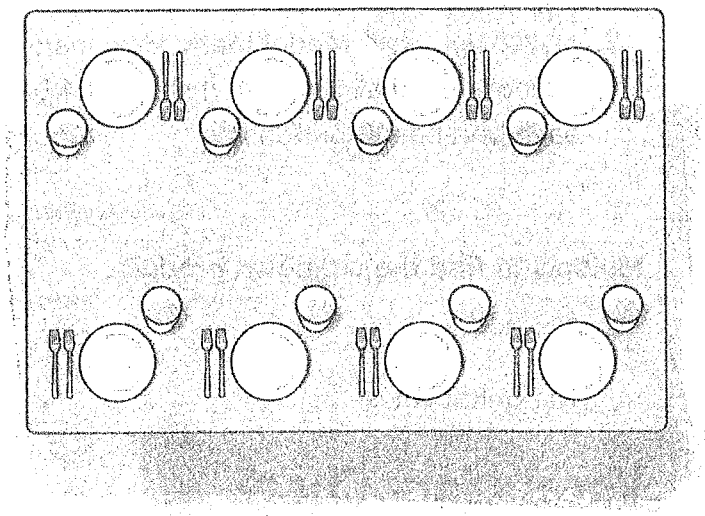


Dani will put 2 forks at each of the 8 table settings. How many forks does she need in all?

Find 8 groups of 2.

Write an addition sentence to show the equal groups.

$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 16$

Write a multiplication sentence to show 8 groups of 2.

$8 \times 2 = \square$ ← Find the unknown.

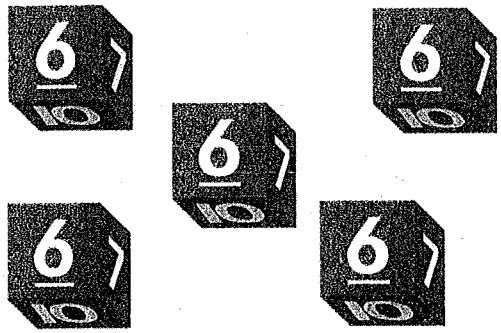
$8 \times 2 = 16$

So, 8 groups of 2 is 16. The unknown is 16 forks.

Practice

Write an addition sentence and a multiplication sentence for each.

1.



$6 + 6 + \_\_ + \_\_ + \_\_ = \_\_$

$\_\_ \times \_\_ = \_\_$

2.

$\_\_ + \_\_ + \_\_ + \_\_ = \_\_$

$\_\_ \times \_\_ = \_\_$

Problem Solving

Draw a picture to find the total. Write a multiplication sentence.

3. 7 groups of 1 green grape

_____ × _____ = _____

4. 9 groups of 2 square crackers

_____ × _____ = _____

5. **Processes & Practices** **Model Math** How many buttons does Leonora have all together if she has 4 bags of buttons and each bag has 10 buttons?

_____ × _____ = _____

Multiply to find the unknown product.

6. 8 × 3 = ■

The unknown is _____.

7. 4 × 3 = ■

The unknown is _____.

Vocabulary Check

Use the correct word(s) and the number sentence 6 × 8 = 48 to solve.

equal groups repeated addition multiply factors product

8. The number 48 is the _____.

9. The symbol × tells you to _____.

10. The numbers 6 and 8 are the _____.

11. 8 + 8 + 8 + 8 + 8 + 8 = 48 shows _____.

12. 6 × 8 means 6 _____ of 8.

Brain Builders

13. **Test Practice** Sam and Bo are washing windows. Each boy washes 5 windows in each of 7 rooms. How many windows do they wash?

Ⓐ 2 windows Ⓒ 35 windows

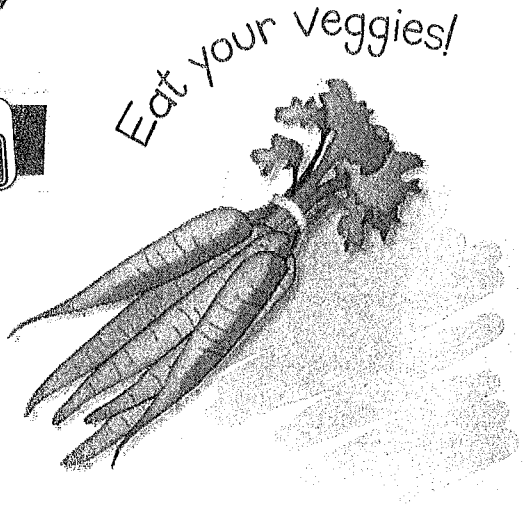
Ⓑ 12 windows Ⓓ 70 windows

Name .....

Lesson 2 Division as Equal Sharing

ESSENTIAL QUESTION
What does division mean?

One way to **divide** is to find the number in each group. This can be done by equal sharing.



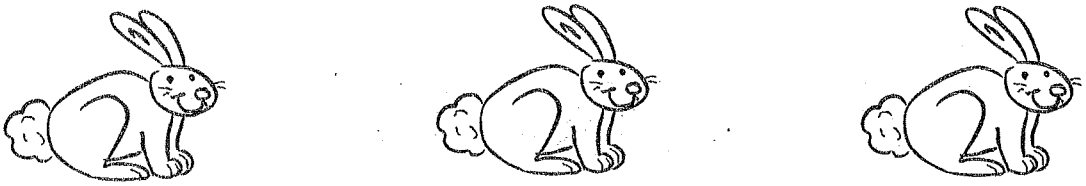
Math in My World

Tools Watch Tutor

Example 1

Nolan feeds 6 carrots equally to 3 rabbits. How many carrots does each rabbit get?

Draw one carrot at a time next to each rabbit until there are no more carrots.



Write a division sentence to represent the problem.
A **division sentence** is a number sentence that uses the operation of division.

6 carrots equally shared by 3 rabbits gives _____ carrots to each rabbit.

6 ÷ 3 = _____ There are _____ carrots for each rabbit.

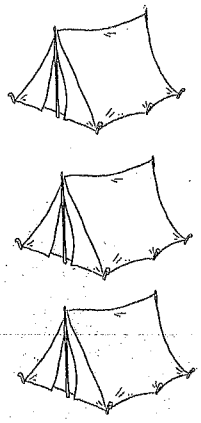
You can think of division sentences in two ways.

6 items
3 equal groups
2 items in each group → 6 ÷ 3 = 2 ← 6 items
2 equal groups
3 items in each group

You can draw an array to help you divide.

Example 2

Fifteen scouts equally shared 3 tents. How many scouts are in each tent? Place one counter (scout) at a time next to each tent until all the counters are gone. Draw a sketch of your counters.



_____

_____

_____

Helpful Hint

When you divide, you share an equal number to all of the groups.

_____ scouts ÷ _____ tents = _____ scouts in each tent

_____ ÷ _____ = _____

There will be _____ scouts in each tent.

Guided Practice

Use counters to find how many are in each group.

1. 10 counters
   2 equal groups

   _____ in each group

   10 ÷ 2 = _____

2. 14 counters
   7 equal groups

   _____ in each group

   14 ÷ 7 = _____

3. 20 counters
   5 equal groups

   _____ in each group

   20 ÷ 5 = _____

Talk MATH

Explain what it means to share equally when dividing.

Name .....

Independent Practice

Use counters to find how many are in each group.

4. 12 counters
2 equal groups
_____ in each group
_____ ÷ _____ = _____

5. 16 counters
4 equal groups
_____ in each group
_____ ÷ _____ = _____

6. 18 counters
6 equal groups
_____ in each group
_____ ÷ _____ = _____

Use counters to find the number of equal groups.

7. 8 counters
_____ equal groups
4 in each group
8 ÷ _____ = 4

8. 21 counters
_____ equal groups
7 in each group
21 ÷ _____ = 7

9. 18 counters
_____ equal groups
9 in each group
18 ÷ _____ = 9

Use counters to draw an array. Write a division sentence.

10. Draw 9 counters in 3 equal rows.

There are _____ in each row.

_____ ÷ _____ = _____

11. Draw 14 counters in 2 equal rows.

There are _____ in each row.

_____ ÷ _____ = _____

Algebra Draw lines to match each division sentence with its correct unknown.

12. 24 ÷ ▢ = 3 • 5

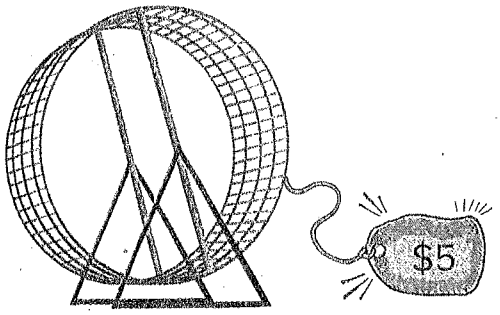
13. 30 ÷ 6 = ▢ • 7

14. 42 ÷ ▢ = 6 • 8

Problem Solving

Draw a picture to solve. Then write a division sentence.

15. Marla has $25. How many hamster wheels can she buy?



16. A seamstress needs 18 feet of fabric. How many yards of fabric does she need? (*Hint:* 1 yard = 3 feet)

Brain Builders

17. **Processes & Practices** 1 **Plan Your Solution** There are 6 juice boxes in a package. How many packages need to be bought if 24 juice boxes are needed for a picnic? Write a division sentence with a symbol for the unknown. Then solve.

18. **Processes & Practices** 4 **Model Math** Write a real-world problem that uses the division sentence 12 ÷ 6 = ■. Then find the unknown.

Write a related multiplication sentence to check your answer.

19. **Building on the Essential Question** How is dividing like sharing?

Name .....

MY Homework

Lesson 2

Division as Equal Sharing

Homework Helper

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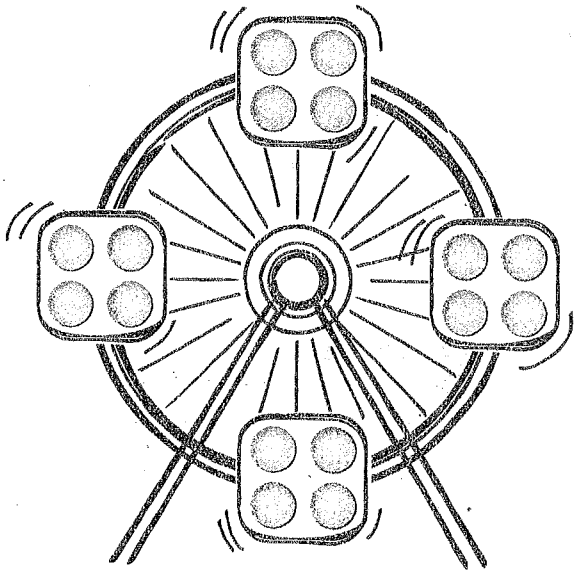
There are 16 people on a ride at the fair. They are divided evenly among 4 carts. How many people are in each cart?

Use counters to solve the problem.



1. Start with 16 counters to represent the 16 people.
2. Divide the counters evenly among the carts.
3. 16 riders divided equally among 4 carts is 4 riders per cart.

So, 16 ÷ 4 = 4.

Practice

Use counters to find how many are in each group.

1. 21 counters
   7 equal groups
   ..... in each group
   21 ÷ 7 = ...

2. 16 counters
   2 equal groups
   ..... in each group
   16 ÷ 2 = ...

3. 18 counters
   3 equal groups
   ..... in each group
   18 ÷ 3 = ...

4. 30 counters
   6 equal groups
   ..... in each group
   30 ÷ 6 = ...

Use counters to find the number of equal groups.

5. 24 counters

_____ equal groups
3 in each group

24 ÷ _____ = 3

6. 24 counters

_____ equal groups
6 in each group

24 ÷ _____ = 6

Brain Builders

Draw a picture to solve. Then write a division sentence.

7. Amy and 3 friends want to share 8 apples equally. How many apples will each person get?

_____

8. **Processes & Practices** **Model Math** Sarah has 32 crackers. She eats 2 and throws away 2 that she dropped. Sarah puts the rest of the crackers into 4 equal groups. How many crackers are in each group?

_____

Vocabulary Check

Draw an example or write a definition beneath each vocabulary word.

9. array

10. divide

11. division sentence

12. **Test Practice** There are 12 girls and 13 boys in Mr. Copa's class. He divides the students into equal groups of 5. How many students are in each group?

Ⓐ 5 students

Ⓑ 10 students

Ⓒ 15 students

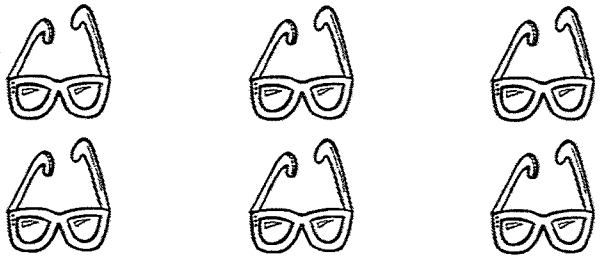
Ⓓ 20 students

Multiplication

Name: _____

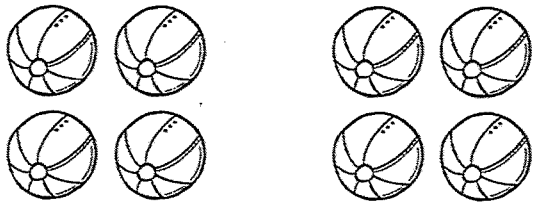
Circle the groups in each picture.
Use the picture to write a multiplication sentence.

1.



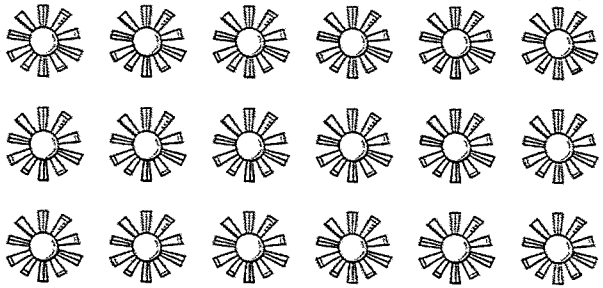
___ × ___ = ___

2.



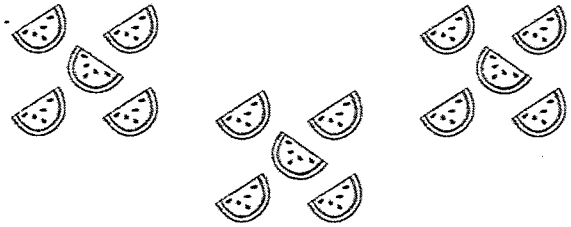
___ × ___ = ___

3.



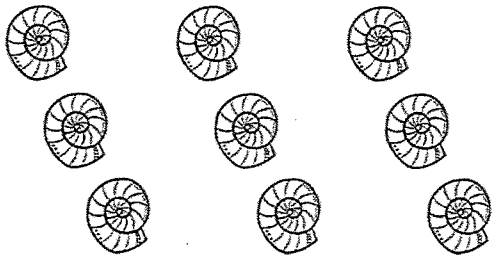
___ × ___ = ___

4.



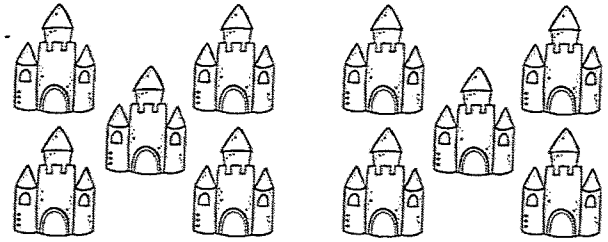
___ × ___ = ___

5.



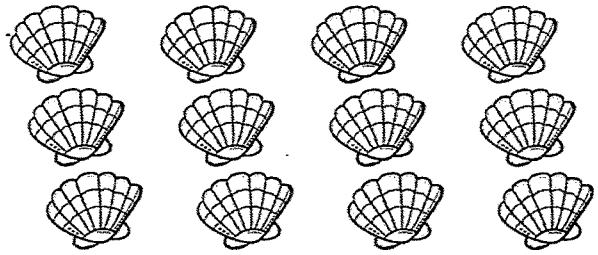
___ × ___ = ___

6.



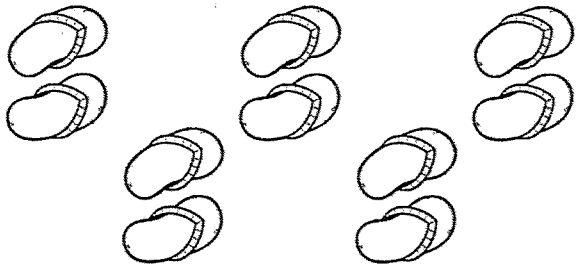
___ × ___ = ___

7.



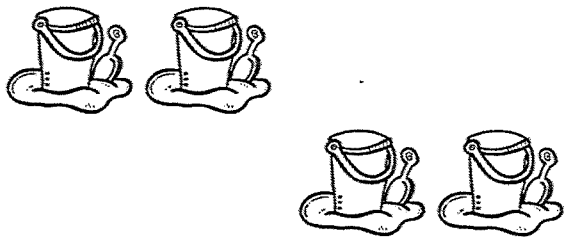
___ × ___ = ___

8.



___ × ___ = ___

9.



___ × ___ = ___