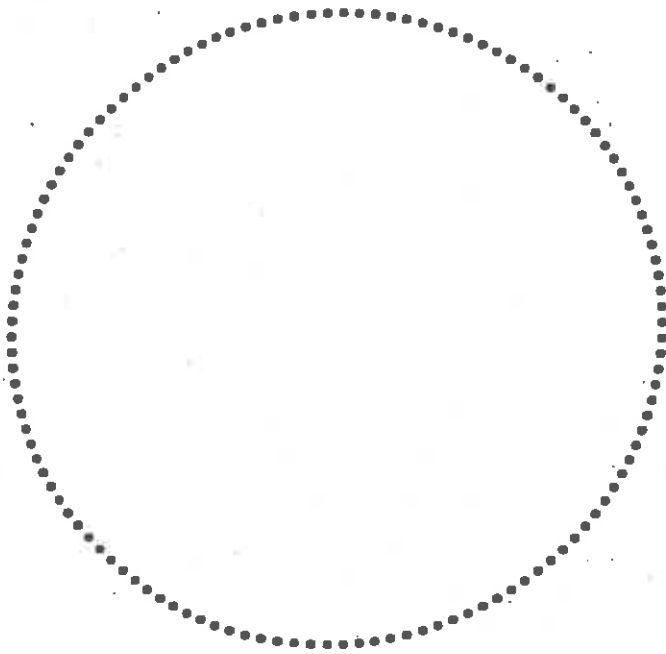Name _____

Describe the Main Character

Draw the main character in your book. Make a list of words to describe the character. Write the part in the book that backs up your description of the character.

Words to describe the character

_____

_____

_____

_____

_____

_____

_____

Character's Name

_____

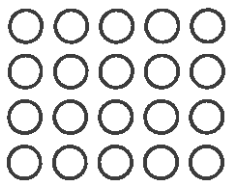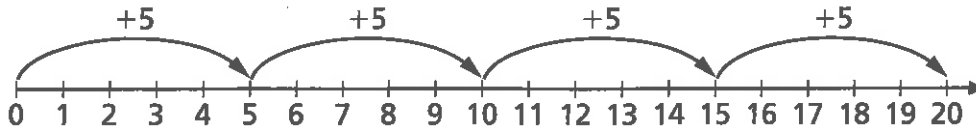**Proof from the book**

_____

_____

_____

_____

Chapter 6: Multiplication

Multiplication as Repeated Addition

You can use repeated addition, skip counting, a number line, or arrays to multiply.

$5 + 5 + 5 + 5$ is **repeated addition**.

5, 10, 15, 20 is **skip counting**.

4 groups of 5 is 20.

$4 \times 5 = 20$

1. Write the next 2 numbers in each skip counting pattern.

   a) 4, 8, 12, _____ , _____   **b)** 3, 6, 9, _____ , _____

2. Calculate.

   a) $2 + 2 + 2 + 2 + 2 =$ _____   **b)** $4 + 4 + 4 + 4 =$ _____

3. Write an addition sentence for each multiplication. Then calculate.

   a) 3×5 _____   **d)** 1×4 _____

   b) 5×4 _____   **e)** 2×3 _____

   c) 5×5 _____   **f)** 4×2 _____

4. Write an addition sentence and a multiplication sentence for each picture.

   a)

   ___ + ___ + ___ + ___ = ___

   ___ × ___ = ___

   b)

   _____

   _____

Multiplication Representation

You can represent multiplication in many ways.

Multiplication is a "shortcut way" of writing repeated addition.

2 + 2 + 2 means three groups of 2.

You can show 2 + 2 + 2 with a picture.

You can write 2 + 2 + 2 as the multiplication fact 3 x 2.

Complete the following chart.

Repeated Addition	In Words	Picture	Multiplication Fact	Answer
2 + 2 + 2	3 groups of 2	✱✱ ✱✱ ✱✱	3 x 2	6
2 + 2 + 2 + 2 + 2				
		✱✱ ✱✱ ✱✱ ✱✱ ✱✱ ✱✱		
	4 groups of 2			
			1 x 2	

Challenge 1A: Multiplication Representation with 2 © Mathimagine 2001

LEVEL 2 CHALLENGE CONGRATULATIONS!

Complete these facts as fast as you can.

2	4	2	4	6	5	1
x 6	x 5	x 9	x 2	x 5	x 3	x 10

5	2	7	10	8	5	2
x 7	x 3	x 2	x 3	x 5	x 1	x 2

2	7	8	9	10	2	5
x 5	x 5	x 2	x 5	x 4	x 1	x 3

4 x 2 = _____   5 x 6 = _____   3 x 5 = _____   2 x 9 = _____

7 x 5 = _____   2 x 8 = _____   4 x 10 = _____   7 x 2 = _____

5 x 5 = _____   9 x 5 = _____   5 x 5 = _____   10 x 7 = _____

9 x 2 = _____   10 x 10 = _____   2 x 6 = _____   5 x 8 = _____

Match-Ups

Complete each multiplication fact by connecting the dots.

Use a ruler to connect the dots.

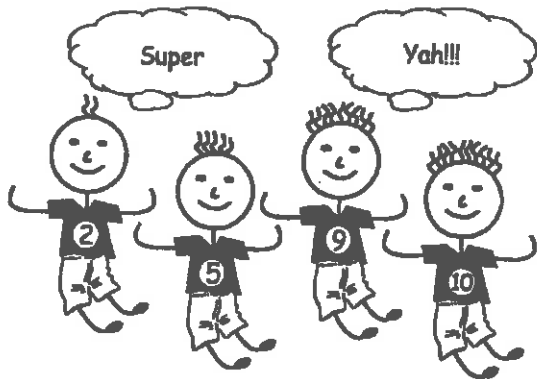|			
2 x 5 •	• 25	5 x 7 •	• 35
8 x 5 •	• 10	5 x 4 •	• 25
5 x 5 •	• 40	5 x 9 •	• 15
9 x 5 •	• 35	5 x 6 •	• 10
4 x 5 •	• 5	5 x 8 •	• 5
7 x 5 •	• 45	5 x 1 •	• 40
1 x 5 •	• 20	5 x 2 •	• 30
10 x 5 •	• 15	5 x 3 •	• 45
6 x 5 •	• 50	5 x 5 •	• 20
3 x 5 •	• 30	5 x 10 •	• 50

Now cover up the answers and practise each set.

Which fact do you find the hardest to remember? Write it out 5 times.

Super

Yah!!!

Complete these facts as fast as you can.

$3 \times 9 =$ _____ $4 \times 5 =$ _____ $2 \times 3 =$ _____ $9 \times 8 =$ _____

$8 \times 2 =$ _____ $6 \times 9 =$ _____ $7 \times 5 =$ _____ $1 \times 9 =$ _____

$6 \times 5 =$ _____ $2 \times 6 =$ _____ $5 \times 10 =$ _____ $2 \times 7 =$ _____

$9 \times 5 =$ _____ $1 \times 2 =$ _____ $9 \times 9 =$ _____ $8 \times 5 =$ _____

$4 \times 9 =$ _____ $7 \times 9 =$ _____ $5 \times 5 =$ _____ $9 \times 2 =$ _____

2	6	2	9	10	5
x 4	x 5	x 9	x 9	x 2	x 9

9	5	8	9	5	2
x 7	x 7	x 9	x 4	x 2	x 8

5	6	8	7	9	2
x 3	x 9	x 5	x 2	x 3	x 2

Secret Code

Check the code key for the letter that matches each answer.

Write the letter for question #1 in blank #1, question #2 in blank #2, and so on.

Why did the boat go to a gym?

$\overline{}_{1}$ $\overline{}_{2}$ $\overline{}_{3}$ $\overline{}_{4}$ $\overline{}_{5}$ $\overline{}_{6}$ $\overline{}_{7}$ $\overline{}_{8}$ $\overline{}_{9}$ $\overline{}_{10}$ $\overline{}_{11}$ $\overline{}_{12}$ $\overline{}_{13}$ $\overline{}_{14}$ $\overline{}_{15}$

$\overline{}_{16}$ $\overline{}_{17}$ $\overline{}_{18}$ $\overline{}_{19}$ $\overline{}_{20}$ $\overline{}_{21}$ $\overline{}_{22}$ $\overline{}_{23}$ $\overline{}_{24}$ $\overline{}_{25}$ $\overline{}_{26}$ $\overline{}_{27}$ $\overline{}_{28}$ $\overline{}_{29}$ $\overline{}_{30}$
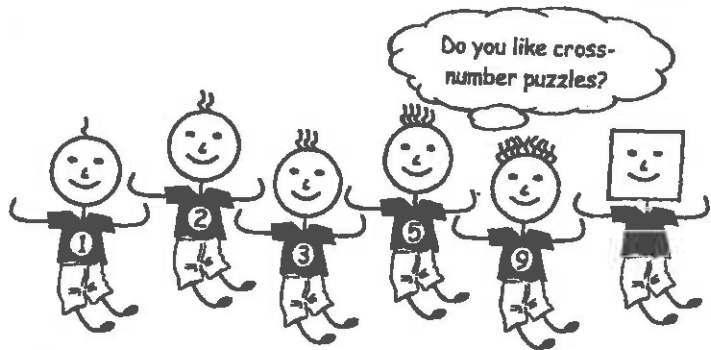
Code Key	C	W	B	N	U	H	D	T	I	E	A	S	O	P
	1	4	9	16	25	27	30	36	49	54	63	64	72	81

① 3 ×3   ② 9 ×6   ③ 1 ×1   ④ 7 ×9   ⑤ 5 ×5   ⑥ 8 ×8

⑦ 6 ×9   ⑧ 7 ×7   ⑨ 6 ×6   ⑩ 2 ×2   ⑪ 9 ×7   ⑫ 4 ×4

⑬ 6 ×6   ⑭ 9 ×6   ⑮ 6 ×5   ⑯ 9 ×4   ⑰ 8 ×9   ⑱ 3 ×3

⑲ 6 ×9   ⑳ 7 ×7   ㉑ 4 ×4   ㉒ 8 ×8   ㉓ 9 ×3   ㉔ 7 ×7

㉕ 9 ×9   ㉖ 8 ×8   ㉗ 3 ×9   ㉘ 9 ×7   ㉙ 9 ×9   ㉚ 6 ×9

Cross-Number Puzzle

Complete each multiplication fact and then fill in the puzzle. The first answers are filled in for you.

¹1	²8			³	⁴			⁵	⁶			⁷
	⁸1	⁹			¹⁰	¹¹			¹²	¹³		
		¹⁴	¹⁵			¹⁶	¹⁷			¹⁸	¹⁹	
²⁰			²¹	²²			²³	²⁴			²⁵	²⁶
²⁷				²⁸				²⁹				³⁰

ACROSS

① 6 x 3 = __18__
③ 7 x 3 = _____
⑤ 3 x 4 = _____
⑦ 1 x 9 = _____
⑧ 4 x 4 = _____
⑩ 3 x 9 = _____
⑫ 6 x 3 = _____
⑭ 6 x 6 = _____
⑯ 3 x 8 = _____
⑱ 8 x 2 = _____
⑳ 1 x 1 = _____
㉑ 9 x 5 = _____
㉓ 1 x 1 = _____
㉕ 4 x 9 = _____
㉗ 8 x 3 = _____
㉘ 7 x 7 = _____
㉙ 5 x 5 = _____
㉚ 2 x 2 = _____

DOWN

② 9 x 9 = __81__
④ 4 x 3 = _____
⑥ 7 x 3 = _____
⑦ 3 x 3 = _____
⑨ 9 x 7 = _____
⑪ 8 x 9 = _____
⑬ 9 x 9 = _____
⑮ 8 x 8 = _____
⑰ 4 x 10 = _____
⑲ 7 x 9 = _____
⑳ 4 x 3 = _____
㉒ 9 x 6 = _____
㉔ 2 x 6 = _____
㉖ 8 x 8 = _____

Dessert Included

Brenda and Doug really like chocolate—chocolate-covered raisins, chocolate candy, chocolate cake and hot chocolate! Most of all, they are very fond of chocolate sundaes with chocolate chip ice cream. When they find out that the Eats and Sweets Restaurant is offering a free chocolate dessert with any meal costing exactly $5.00, they decide to go there for dinner.

MENU

Meat and Seafood

Chicken	$ 1.95
Roast Beef	$ 3.05
Shrimp	$ 3.50
Roast Pork	$ 2.75

Salads

Cole Slaw	$ .60
Potato Salad	$ .95
Dinner Salad	$ .75
Macaroni Salad	$ 1.10

Potatoes /Vegetables

Baked Potato	$ 1.00
Peas and Carrots	$ .85
Sweet Corn	$ .65
Green Beans	$ .50

Drinks

Milk	$ .40
Chocolate Milk	$ .45
Orange Juice	$ .95
Soda Pop	$ .55

▶ Choosing one item from each of the four categories on the menu, list four different meals they could eat for exactly $5.00, and then receive the free dessert. **Hint:** Use each item only once.
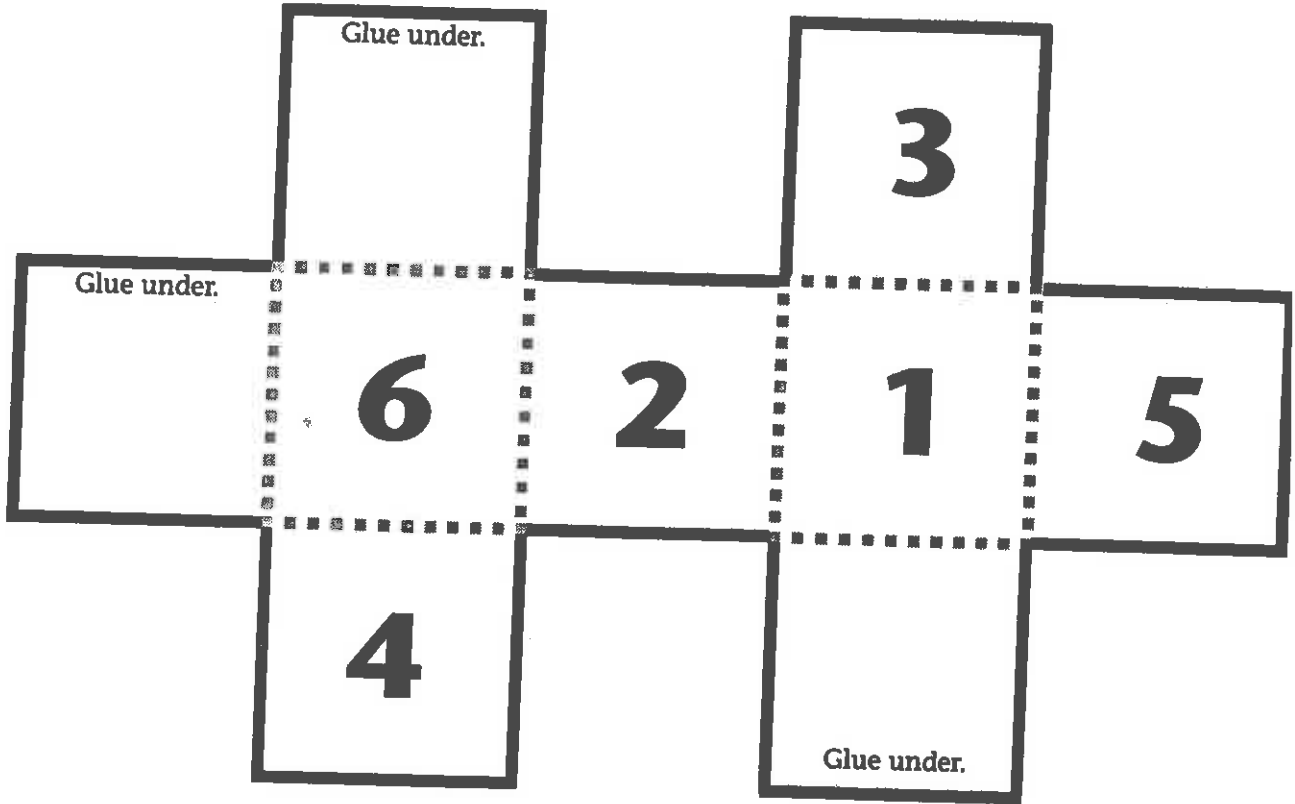
Meal # 1 _____, _____, _____, _____

Meal # 2 _____, _____, _____, _____

Meal # 3 _____, _____, _____, _____
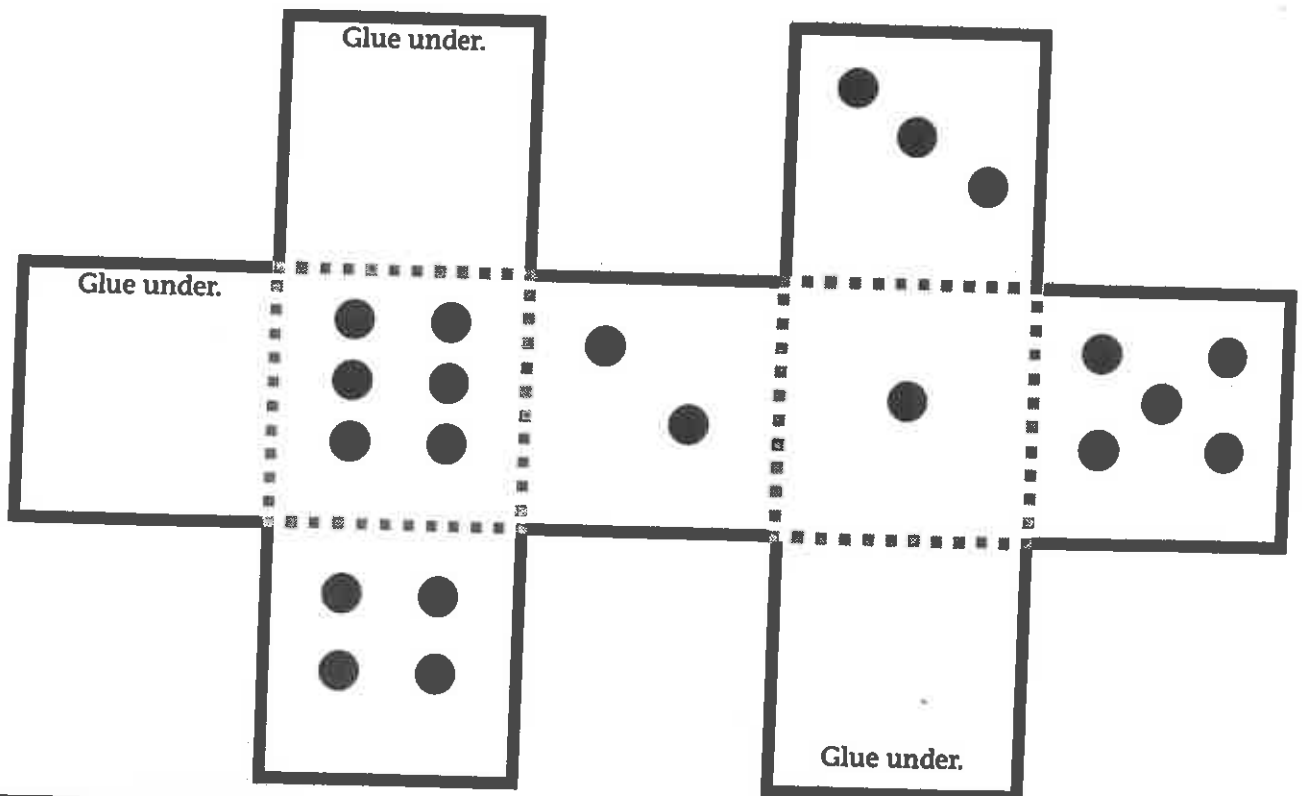
Meal # 4 _____, _____, _____, _____

DICE

Reproduce for *Lightning* (page 56), *Cover Up* (page 62), and *Snail's Pace* (page 76).
Cut out, fold on dotted lines and glue together.

Glue under.

Glue under.

3

6   **2**   **1**   **5**

4

Glue under.

Reproduce for *Sink or Swim* (page 54).
Cut out, fold on dotted lines and glue together.

Glue under.

Glue under.

Glue under.

No PREP Multiplication

SQUARES

4	10	24	3	12	4	25	2	15	20
20	30	36	8	15	5	18	30	12	9
18	5	1	24	20	25	6	1	24	8
12	16	25	6	36	3	36	5	4	24
2	9	24	18	12	8	10	4	15	12
5	15	4	30	6	24	12	2	18	3
8	20	36	5	15	4	30	1	3	12
24	6	20	2	18	25	15	6	20	10
3	30	10	30	15	9	6	5	18	4
12	5	16	24	8	3	30	12	10	16

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GAMES 4 GAINS