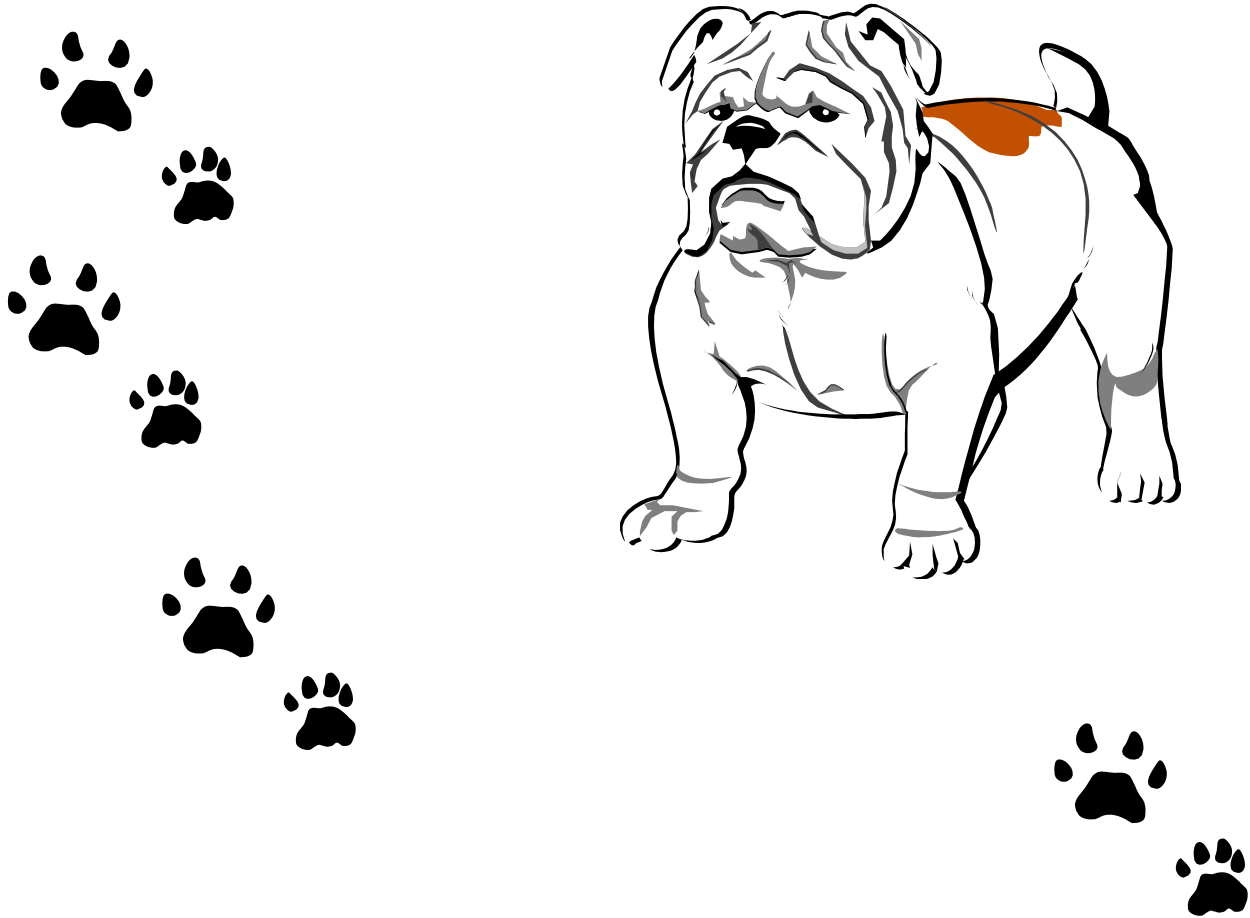


John T. Baker Middle School

Summer Math Packet

Student Name: _____



Say Hello to Math 6

For Students Entering Math 6

This summer math booklet was developed to provide students in middle school an opportunity to review grade level math objectives and to improve math performance.

Say Hello to Math 6

One goal of Baker Middle School is to promote increased math performance at all grade levels. Completing the summer math booklet allows each student and parent within the school to work together to achieve this goal. Students who complete the summer math booklet will be able to:

- Increase retention of math concepts,
- Increase the level of proficiency on the Maryland School Assessment,
- Work toward closing the gap in student performance.

Student Responsibilities

Students will be able to improve their math performance by:

- Completing the summer math booklet,
- Reviewing math skills throughout the summer.

Student Signature

Grade

Date

Parent Responsibilities

Parents will be able to promote student success in math by:

- Supporting the math goals of Baker Middle School,
- Monitoring student completion of the summer math booklet,
- Encouraging student use of math concepts in summer activities.

Parent Signature

Date

This summer math booklet was adapted by Missy Sigley, Math Resource Teacher at Baker Middle School from the "Sail into Summer with Math!" booklets and from *Holt Mathematics 5th Grade Edition*, published by Holt, Rinehart, and Winston, 1981.

John T. Baker Middle School

Know the Times Tables

Exercises: Complete each table.

ZERO	TABLE
0×0	0
0×1	0
0×2	0
0×3	0
0×4	
0×5	
0×6	
0×7	
0×8	
0×9	
0×10	
0×11	
0×12	

ONES	TABLE
1×0	0
1×1	1
1×2	2
1×3	
1×4	
1×5	
1×6	
1×7	
1×8	
1×9	
1×10	
1×11	
1×12	

TWOS	TABLE
2×0	0
2×1	2
2×2	
2×3	
2×4	
2×5	
2×6	
2×7	
2×8	
2×9	
2×10	
2×11	
2×12	

THREES	TABLE
3×0	0
3×1	
3×2	
3×3	
3×4	
3×5	
3×6	
3×7	
3×8	
3×9	
3×10	
3×11	
3×12	

FOURS	TABLE
4×0	
4×1	
4×2	
4×3	
4×4	
4×5	
4×6	
4×7	
4×8	
4×9	
4×10	
4×11	
4×12	

FIVES	TABLE
5×0	
5×1	
5×2	
5×3	
5×4	
5×5	
5×6	
5×7	
5×8	
5×9	
5×10	
5×11	
5×12	

SIXES	TABLE
6×0	
6×1	
6×2	
6×3	
6×4	
6×5	
6×6	
6×7	
6×8	
6×9	
6×10	
6×11	
6×12	

SEVENS	TABLE
7×0	
7×1	
7×2	
7×3	
7×4	
7×5	
7×6	
7×7	
7×8	
7×9	
7×10	
7×11	
7×12	

EIGHTS	TABLE
8×0	
8×1	
8×2	
8×3	
8×4	
8×5	
8×6	
8×7	
8×8	
8×9	
8×10	
8×11	
8×12	

NINES	TABLE
9×0	
9×1	
9×2	
9×3	
9×4	
9×5	
9×6	
9×7	
9×8	
9×9	
9×10	
9×11	
9×12	

TENS	TABLE
10×0	
10×1	
10×2	
10×3	
10×4	
10×5	
10×6	
10×7	
10×8	
10×9	
10×10	
10×11	
10×12	

ELEVENS	TABLE
11×0	
11×1	
11×2	
11×3	
11×4	
11×5	
11×6	
11×7	
11×8	
11×9	
11×10	
11×11	
11×12	

TWELVES	TABLE
12×0	
12×1	
12×2	
12×3	
12×4	
12×5	
12×6	
12×7	
12×8	
12×9	
12×10	
12×11	
12×12	

Multiplying Speed Drill

Exercises: Multiply as quickly as you can. After you finish, check your answers with your tables.

1. 3×9 2. 7×1 3. 2×0 4. 9×6 5. 3×2

6. 5×3 7. 6×7 8. 5×6 9. 4×7 10. 3×4

11. 6×2 12. 4×2 13. 5×7 14. 0×3 15. 0×8

16. 1×6 17. 9×4 18. 7×0 19. 3×8 20. 2×6

21. 1×8 22. 6×3 23. 0×1 24. 9×9 25. 2×7

26. 5×8 27. 4×9 28. 5×1 29. 8×6 30. 4×0

31. 7×6 32. 3×6 33. 8×3 34. 2×5 35. 9×8

Multiplying by Ones

Examples:

1) 3×26 .

TENS	ONES
1	
2	6
x	3
7	8

2) 5×653

Use the steps to multiply 5×653 :

Step 1 <i>multiply ones</i>	Step 2 <i>multiply tens</i>	Step 3 <i>multiply hundreds</i>
$\begin{array}{r} 1 \\ 653 \\ \times 5 \\ \hline 5 \end{array}$	$\begin{array}{r} 21 \\ 653 \\ \times 5 \\ \hline 65 \end{array}$	$\begin{array}{r} 21 \\ 653 \\ \times 5 \\ \hline 3,265 \end{array}$

Exercises: Multiply.

1. $\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$

2. $\begin{array}{r} 91 \\ \times 6 \\ \hline \end{array}$

3. $\begin{array}{r} 64 \\ \times 8 \\ \hline \end{array}$

4. $\begin{array}{r} 78 \\ \times 7 \\ \hline \end{array}$

5. $\begin{array}{r} 80 \\ \times 4 \\ \hline \end{array}$

6. $\begin{array}{r} 75 \\ \times 7 \\ \hline \end{array}$

7. $\begin{array}{r} 39 \\ \times 5 \\ \hline \end{array}$

8. $\begin{array}{r} 53 \\ \times 6 \\ \hline \end{array}$

9. $\begin{array}{r} 25 \\ \times 3 \\ \hline \end{array}$

10. $\begin{array}{r} 90 \\ \times 9 \\ \hline \end{array}$

11. $\begin{array}{r} 221 \\ \times 4 \\ \hline \end{array}$

12. $\begin{array}{r} 513 \\ \times 3 \\ \hline \end{array}$

13. $\begin{array}{r} 113 \\ \times 7 \\ \hline \end{array}$

14. $\begin{array}{r} 611 \\ \times 5 \\ \hline \end{array}$

15. $\begin{array}{r} 308 \\ \times 9 \\ \hline \end{array}$

16. $\begin{array}{r} 261 \\ \times 6 \\ \hline \end{array}$

17. $\begin{array}{r} 272 \\ \times 4 \\ \hline \end{array}$

18. $\begin{array}{r} 651 \\ \times 7 \\ \hline \end{array}$

19. $\begin{array}{r} 188 \\ \times 5 \\ \hline \end{array}$

20. $\begin{array}{r} 102 \\ \times 8 \\ \hline \end{array}$

Multiplying by Tens

Examples:

548×24

Use the steps to multiply 548×24 :

Step 1 <i>multiply ones</i>	Step 2 <i>multiply tens</i>	Step 3 <i>add</i>
$\begin{array}{r} 548 \\ \times 24 \\ \hline 2192 \end{array}$	$\begin{array}{r} 548 \\ \times 24 \\ \hline 2192 \\ 10960 \end{array}$	$\begin{array}{r} 548 \\ \times 24 \\ \hline 2192 \\ + 10960 \\ \hline 13152 \end{array}$

Exercises: Multiply. Show your work.

1.
$$\begin{array}{r} 32 \\ \times 14 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 40 \\ \times 17 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 56 \\ \times 17 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 92 \\ \times 45 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 43 \\ \times 24 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 67 \\ \times 81 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 58 \\ \times 91 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 44 \\ \times 62 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 84 \\ \times 39 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 93 \\ \times 68 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 82 \\ \times 77 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 65 \\ \times 56 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 456 \\ \times 18 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 989 \\ \times 91 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 101 \\ \times 47 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 754 \\ \times 29 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 327 \\ \times 63 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 672 \\ \times 52 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 462 \\ \times 94 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 407 \\ \times 36 \\ \hline \end{array}$$

Multiplying by Hundreds

Examples:

325×127

Use the steps to multiply 325×127 :

Step 1
multiply ones

$$\begin{array}{r} 325 \\ \times 127 \\ \hline 2275 \end{array}$$

Step 2
multiply tens

$$\begin{array}{r} 325 \\ \times 127 \\ \hline 2275 \\ 6500 \end{array}$$

Step 3
multiply hundreds

$$\begin{array}{r} 325 \\ \times 127 \\ \hline 2275 \\ 6500 \\ 32500 \end{array}$$

Step 4
add

$$\begin{array}{r} 325 \\ \times 127 \\ \hline 2275 \\ 6500 \\ + 32500 \\ \hline 41275 \end{array}$$

Exercises: Multiply. Show your work.

1. $\begin{array}{r} 314 \\ \times 192 \end{array}$

2. $\begin{array}{r} 246 \\ \times 153 \end{array}$

3. $\begin{array}{r} 538 \\ \times 537 \end{array}$

4. $\begin{array}{r} 349 \\ \times 216 \end{array}$

5. $\begin{array}{r} 784 \\ \times 618 \end{array}$

6. $\begin{array}{r} 628 \\ \times 343 \end{array}$

7. $\begin{array}{r} 926 \\ \times 354 \end{array}$

8. $\begin{array}{r} 532 \\ \times 948 \end{array}$

9. $\begin{array}{r} 678 \\ \times 396 \end{array}$

10. $\begin{array}{r} 893 \\ \times 547 \end{array}$

Dividing Speed Drill

Exercises: Divide as quickly as you can.

1. $9 \div 1$

2. $14 \div 2$

3. $36 \div 6$

4. $36 \div 4$

5. $5 \div 5$

6. $16 \div 4$

7. $12 \div 4$

8. $54 \div 9$

9. $42 \div 7$

10. $8 \div 2$

11. $45 \div 5$

12. $12 \div 2$

13. $72 \div 8$

14. $30 \div 6$

15. $5 \div 1$

16. $3 \div 3$

17. $28 \div 7$

18. $15 \div 5$

19. $40 \div 8$

20. $18 \div 3$

21. $20 \div 5$

22. $16 \div 2$

23. $9 \div 9$

24. $24 \div 6$

25. $21 \div 3$

26. $49 \div 7$

27. $24 \div 3$

28. $2 \div 1$

29. $35 \div 7$

30. $12 \div 3$

31. $24 \div 4$

32. $45 \div 9$

33. $12 \div 6$

34. $14 \div 7$

35. $25 \div 5$

Dividing Two and Three Digits

Examples:

$168 \div 4$

(reads 168
divide by 4)

Use the steps to divide 168 by 4:

Step 1:

$\begin{array}{r} 4 \overline{) 168} \end{array}$	estimate - How many 4's in 1?	none
---	-------------------------------	-------------

Step 2:

$\begin{array}{r} 4 \overline{) 168} \end{array}$	estimate - How many 4's in 16?	four
---	--------------------------------	-------------

Step 3:

$\begin{array}{r} 4 \\ 4 \overline{) 168} \\ \underline{-16} \\ 8 \end{array}$	multiply $4 \times 4 = 16$ write the 4 above the 6 subtract bring down the 8	
--	---	--

Step 4:

$\begin{array}{r} 42 \\ 4 \overline{) 168} \\ \underline{-16} \\ 8 \\ \underline{-8} \\ 0 \end{array}$	estimate - How many 4's in 8? write two above the 8 multiply subtract	two
--	--	------------

answer: 42

Hint: The first number goes inside the division box.

Exercises: Divide. Show your work.

1. $46 \div 2$ 2. $69 \div 3$ 3. $55 \div 5$ 4. $86 \div 2$ 5. $88 \div 4$

6. $268 \div 2$ 7. $777 \div 7$ 8. $696 \div 3$ 9. $684 \div 2$ 10. $396 \div 3$

11. $854 \div 7$ 12. $676 \div 4$ 13. $665 \div 5$ 14. $994 \div 7$ 15. $960 \div 5$

Dividing by Tens and Ones

Examples:

$$729 \div 34$$

(reads 729
divide by 34)

Use the steps to divide 729 by 34:

Step 1:

$\begin{array}{r} 34 \overline{) 729} \end{array}$	estimate - How many 34's in 7?	none
--	--------------------------------	-------------

Step 2:

$\begin{array}{r} 34 \overline{) 729} \end{array}$	estimate - How many 34's in 72?	two
--	---------------------------------	------------

Step 3:

$\begin{array}{r} 2 \\ 34 \overline{) 729} \\ \underline{- 68} \\ 49 \end{array}$	write the 2 above the 2 multiply 2 x 34 subtract bring down the 49	
---	---	--

Step 4:

$\begin{array}{r} 21 \text{ r } 15 \\ 34 \overline{) 729} \\ \underline{- 68} \\ 49 \\ \underline{- 34} \\ 15 \end{array}$	estimate - How many 34's in 49? write the one above the 9 multiply 1 by 34 subtract remainder is 15	one answer: 21 remainder 15
--	---	--

Hint: The first number goes inside the division box.

Exercises: Divide. Show your work.

1. $84 \div 21$ 2. $88 \div 44$ 3. $93 \div 31$ 4. $28 \div 14$

5. $58 \div 29$ 6. $714 \div 51$ 7. $961 \div 31$ 8. $756 \div 42$

Dividing by Tens Again

Examples:

$$1809 \div 43$$

(reads 1809
divide by 43)

Use the steps to divide 1809 by 43:

Step 1:

$43 \overline{) 1809}$	estimate - How many 43's in 180? Think: How many 4's in 18? four
------------------------	--

Step 2:

$\begin{array}{r} 4 \\ 43 \overline{) 1809} \\ \underline{-172} \\ 89 \end{array}$	put the 4 above the 0 multiply 4 x 43 subtract
--	--

Step 3:

$\begin{array}{r} 42 \text{ r } 3 \\ 43 \overline{) 1809} \\ \underline{-172} \\ 89 \\ \underline{-86} \\ 3 \end{array}$	estimate - how many 43's in 89? two write the 2 above the 9 multiply 2 x 43 subtract remainder 3 answer: 42 remainder 3
--	---

Hint: The first number goes inside the division box.

Exercises: Divide. Show your work.

1. $534 \div 89$

2. $576 \div 72$

3. $305 \div 61$

4. $364 \div 52$

5. $344 \div 43$

6. $117 \div 39$

Parent Packet

Answers to Know the Times Tables (page 3 and 4):

Zero Table - all answers are 0

Ones Table - 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Twos Table - 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

Threes Table - 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36

Fours Table - 0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48

Fives Table - 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60

Sixes Table - 0, 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72

Sevens Table - 0, 7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84

Eights Table - 0, 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96

Nines Table - 0, 9, 18, 27, 36, 45, 54, 63, 72, 81, 90, 99, 108

Tens Table - 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120

Elevens Table - 0, 11, 22, 33, 44, 55, 66, 77, 88, 99, 110, 121, 132

Twelves Table - 0, 12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144

Answers to Multiply Speed Drill (page 5):

1) 12 2) 7 3) 0 4) 54 5) 6 6) 15 7) 42

8) 30 9) 28 10) 12 11) 12 12) 8 13) 35 14) 0

15) 0 16) 6 17) 36 18) 0 19) 24 20) 12 21) 8

22) 18 23) 0 24) 81 25) 14 26) 40 27) 36 28) 5

29) 48 30) 0 31) 42 32) 18 33) 24 34) 10 35) 72

Answers to Multiplying by Ones (page 6):

1) 68 2) 546 3) 512 4) 546 5) 320 6) 525 7) 195

8) 318 9) 75 10) 810 11) 884 12) 1539 13) 791 14) 3055

15) 2772 16) 1566 17) 1088 18) 4557 19) 940 20) 816

Answers to Multiply by Tens (page 7):

- 1) 448 2) 680 3) 952 4) 4140 5) 1032 6) 5427 7) 5278
8) 2728 9) 3276 10) 6324 11) 6314 12) 3640 13) 8208 14) 89999
15) 4747 16) 21866 17) 20601 18) 34944 19) 43428 20) 14652

Answers to Multiply by Hundreds (page 8):

- 1) 60288 2) 37638 3) 288906 4) 75384 5) 484512 6) 215404 7) 327804
8) 504336 9) 268488 10) 488471

Answers to Dividing Speed Drill (page 9):

- 1) 9 2) 7 3) 6 4) 9 5) 1 6) 4 7) 3
8) 6 9) 6 10) 4 11) 8 12) 6 13) 9 14) 5
15) 5 16) 1 17) 4 18) 3 19) 5 20) 6 21) 4
22) 8 23) 1 24) 4 25) 7 26) 7 27) 8 28) 2
29) 5 30) 4 31) 6 32) 5 33) 2 34) 2 35) 5

Answers to Dividing Two and Three Digits (page 10):

- 1) 23 2) 23 3) 11 4) 43 5) 22 6) 134 7) 111
8) 232 9) 342 10) 132 11) 122 12) 169 13) 133 14) 142
15) 192

Answers to Dividing by Tens and Ones (page 11):

- 1) 4 2) 2 3) 3 4) 2 5) 2 6) 14 7) 31 8) 18

Answers to Dividing by Tens Again (page 12):

- 1) 6 2) 8 3) 5 4) 7 5) 8 6) 3