

**Teacher Guide**

**Part 2. Using Mental Math Strategies (TG p. 1)**

**Questions 1–4**

- 1. A. 26                                    B. 200
- 2. A. 30                                    B. 99
- 3. A. 77 and 85  
     B. 77 and 26  
     C. 48 and 26  
     D. 85 and 77
- 4. A. 8101. Possible strategy:  $7950 + 150 = 8100$   
     B. 1126. Possible strategy:  $2000 - 900 = 1100$

**Part 3. Multiplying by 10 and 100 (TG p. 2)**

**Questions 1–5**

- 1. A. 12                            B. 120                            C. 1200
- 2. A. 9                             B. 90                            C. 900
- 3. A. 30                            B. 300                           C. 3000
- 4. Possible response: When you multiply a number by a ten you add a zero to the answer. When you multiply a number by a hundred you add two zeros to the answer.
- 5. A. 340                            B. 6200                           C. 480  
     D. 5100                           E. 2800                           F. 760

**Part 4. Use Strategies to Add and Subtract (TG p. 2)**

**Questions A–E**

- A. 4504            B. 3508            C. 8809            D. 5255
- E. Possible strategy:  $4006 + 498$  is close to  $4006 + 500 = 4506$

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## Unit 9: Home Practice

**Part 1 Triangle Flash Cards: 2s and 3s**  
 Study for the quiz on the multiplication facts for the 2s and 3s. Take home your Triangle Flash Cards: 2s and 3s and your list of facts you need to study. Ask a family member to choose one flash card at a time. He or she should cover the largest number. Solve a multiplication fact with the two uncovered numbers. Your teacher will tell you when the quiz on the 2s and 3s will be.

**Part 2 Using Mental Math Strategies**

1. A.  $18 + 5 + 3 = \underline{\quad}$                     B.  $500 - 300 = \underline{\quad}$

2. A.  $80 - 50 = \underline{\quad}$                          B.  $50 + 40 + 9 = \underline{\quad}$

**Use your estimating strategies to answer the following questions.**

3. Choose two of the numbers at the right to find a sum:

A. over 150. \_\_\_\_\_

B. very close to 100. \_\_\_\_\_

Choose two of the numbers at the right to find a difference:

C. close to 25. \_\_\_\_\_

D. less than 10. \_\_\_\_\_

4. Solve the problems. Estimate to be sure your answers are reasonable. Explain your estimation strategies to your partner.

A. $\begin{array}{r} 7943 \\ + 158 \\ \hline \end{array}$	Your Estimate	B. $\begin{array}{r} 2000 \\ - 874 \\ \hline \end{array}$	Your Estimate

77  
85  
26  
48

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Name \_\_\_\_\_ Date \_\_\_\_\_

**Part 3 Multiplying by 10 and 100.**

1. A.  $6 \times 2 = \underline{\quad}$                     B.  $6 \times 20 = \underline{\quad}$                     C.  $6 \times 200 = \underline{\quad}$

2. A.  $3 \times 3 = \underline{\quad}$                         B.  $3 \times 30 = \underline{\quad}$                         C.  $3 \times 300 = \underline{\quad}$

3. A.  $5 \times 6 = \underline{\quad}$                         B.  $5 \times 60 = \underline{\quad}$                         C.  $5 \times 600 = \underline{\quad}$

4. Describe any patterns you see in Questions 1, 2, and 3.

5. Use patterns to help you solve these problems.

A.  $34 \times 10 = \underline{\quad}$                         B.  $62 \times 100 = \underline{\quad}$                         C.  $48 \times 10 = \underline{\quad}$

D.  $51 \times 100 = \underline{\quad}$                         E.  $28 \times 100 = \underline{\quad}$                         F.  $76 \times 10 = \underline{\quad}$

**Part 4 Use Strategies to Add and Subtract**  
 Solve the problems. Estimate to be sure your answers are reasonable. Use the *Addition Strategies Menu* and *Subtraction Strategies Menu*.

A. $\begin{array}{r} 4006 \\ + 498 \\ \hline \end{array}$	B. $\begin{array}{r} 4006 \\ - 498 \\ \hline \end{array}$	C. $\begin{array}{r} 7032 \\ + 1777 \\ \hline \end{array}$	D. $\begin{array}{r} 7032 \\ - 1777 \\ \hline \end{array}$
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E. Describe the estimation strategy you used for Question A.

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**Part 5 Showing Fractions Many Ways**

1. Skip count by thirds to 10. Write the numbers. Use the diagram to get started.



- 2. I am  $\frac{1}{3}$  more than 1. What number am I? \_\_\_\_\_
- 3. I am  $\frac{1}{3}$  less than 1. What number am I? \_\_\_\_\_
- 4. I am  $\frac{1}{3}$  more than  $1\frac{2}{3}$ . What number am I? \_\_\_\_\_
- 5. Use this picture to answer Questions 5A and 5B.

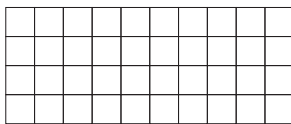


A. What is the area of the large square? \_\_\_\_\_

B. What is the area of the shaded triangle? \_\_\_\_\_

 = 1 sq cm

6. Use the grid to answer the following questions.



- A. Color  $\frac{1}{2}$  of the squares red. How many squares did you color? \_\_\_\_\_
- B. Color half of the remaining squares blue. How many squares did you color? \_\_\_\_\_
- C. Color  $\frac{1}{5}$  of the remaining squares green. How many squares did you color? \_\_\_\_\_

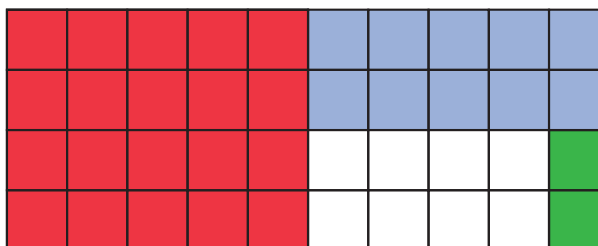
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**Part 5. Showing Fractions Many Ways (TG p. 3)**

**Questions 1–6**

- 1.  $3\frac{1}{3}$ ,  $3\frac{2}{3}$ , 4,  $4\frac{1}{3}$ ,  $4\frac{2}{3}$ , 5,  $5\frac{1}{3}$ ,  $5\frac{2}{3}$ , 6.....  $9\frac{2}{3}$ , 10
- 2.  $1\frac{1}{3}$
- 3.  $\frac{2}{3}$
- 4. 2
- 5. A. 9 sq cm  
B.  $4\frac{1}{2}$  sq cm
- 6. A. 20 squares will be red  
B. 10 squares will be blue  
C. 2 squares will be green



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