

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. $18 + 5 + 3 =$ _____ B. $500 - 300 =$ _____

2. A. $80 - 50 =$ _____ B. $50 + 40 + 9 =$ _____

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. _____

77

85

26

48

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

Part 3 Multiplying by 10 and 100.

1. A. $6 \times 2 =$ _____ B. $6 \times 20 =$ _____ C. $6 \times 200 =$ _____
2. A. $3 \times 3 =$ _____ B. $3 \times 30 =$ _____ C. $3 \times 300 =$ _____
3. A. $5 \times 6 =$ _____ B. $5 \times 60 =$ _____ C. $5 \times 600 =$ _____
4. Describe any patterns you see in Questions 1, 2, and 3.

5. Use patterns to help you solve these problems.

- A. $34 \times 10 =$ _____ B. $62 \times 100 =$ _____ C. $48 \times 10 =$ _____
- D. $51 \times 100 =$ _____ E. $28 \times 100 =$ _____ F. $76 \times 10 =$ _____

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.
$$\begin{array}{r} 4006 \\ -498 \\ \hline \end{array}$$

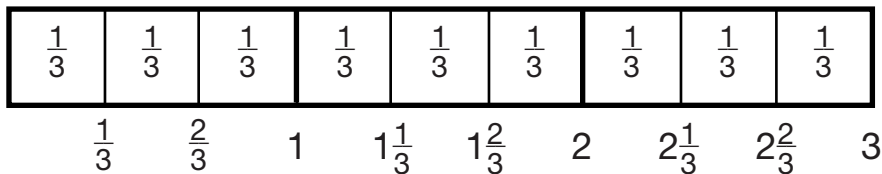
C.
$$\begin{array}{r} 7032 \\ +1777 \\ \hline \end{array}$$

D.
$$\begin{array}{r} 7032 \\ -1777 \\ \hline \end{array}$$

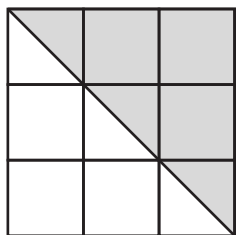
- E. Describe the estimation strategy you used for Question A.

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.

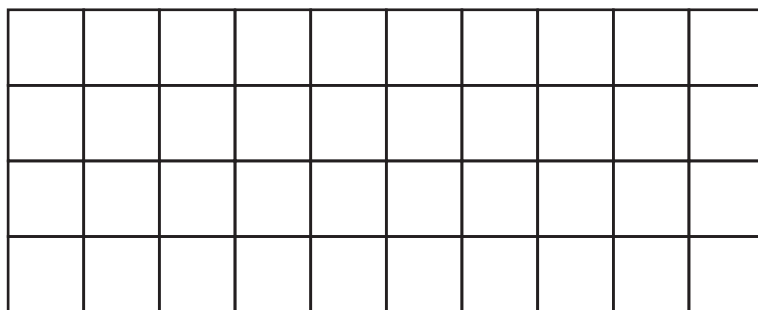


= 1 sq cm

- A. What is the area of the large square?

- B. What is the area of the shaded triangle?

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 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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Name _____ Date _____

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

77

85

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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. $6 \times 200 = \underline{\quad}$

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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.



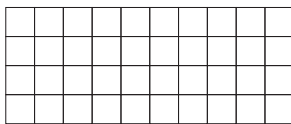
- 2. I am $\frac{1}{3}$ more than 1. What number am I? _____
- 3. I am $\frac{1}{3}$ less than 1. What number am I? _____
- 4. I am $\frac{1}{3}$ more than $1\frac{2}{3}$. What number am I? _____
- 5. Use this picture to answer Questions 5A and 5B.



- 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

