Unit 7: Home Practice

Part 1 Triangle Flash Cards: 2s and 3s

Study for the quiz on the division facts for the last six facts. Take home your Triangle Flash Cards: 2s and 3s and your list of facts you need to study.

Here's how to use the flash cards: Ask a family member to choose one flash card at a time. Your partner should cover the corner containing one of the smaller numbers. This number will be the answer to a division fact. Solve a division problem with the two uncovered numbers.

Your teacher will tell you when the division quiz on the 2s and 3s will be.

Part 2 Order of Operations

1. Remember the order of operations as you do the following problems. You may use a calculator, but be sure you follow the order of operations even if your calculator does not.

   A. $7 \times 2 + 5 =$ _____

   B. $(8 + 4) \times 3 =$ _____

   C. $7 + 24 \div 3 =$ _____

   D. $7 \times 4 + 5 \times 2 =$ _____

   E. $8 \times (6 - 3) \times 3 =$ _____

   F. $36 \div 9 + 6 \times 7 =$ _____

   G. $7 + 9 \times 8 - 5 =$ _____

   H. $100 - 49 \div 7 + 10 =$ _____

2. Play Operation Target. Use the numbers 1, 2, 3, and 4 and the four operations to make as many different whole numbers as you can. You need paper, a pencil, and a calculator. In each number sentence, you must use each of the four digits exactly once. You can use operations once, more than once, or not at all. For example, to make 10 you can write: $4 \times 1 + 2 \times 3 = 10$. Use a separate sheet of paper to write the number sentences for each of the numbers you make.

Part 3 Divisibility
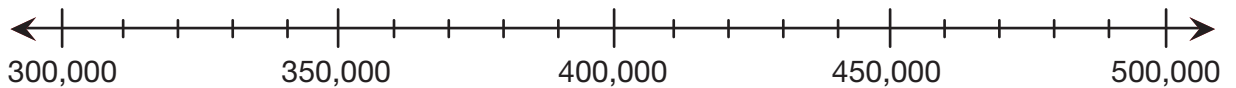
Answer the questions about the numbers listed below.

> 567   85,680   289   27,786   1028   10,782

1. Which numbers are divisible by 2? How did you decide?

2. Which numbers are divisible by 3? How did you decide?

3. Which are divisible by 6? How did you decide?

4. Which are divisible by 5 and 10? How did you decide?

5. Which are divisible by 9? How did you decide?

Part 4 Rounding

Place the numbers on the number line using their letters. Then use the number line to round the numbers as directed.

←——|——+——+——+——|——+——+——+——|——+——+——+——|——+——+——+——|——+——+——+——|——→
300,000   350,000   400,000   450,000   500,000

	Nearest thousand	Nearest ten thousand	Nearest hundred thousand
A. 337,894	_____	_____	_____
B. 414,112	_____	_____	_____
C. 488,792	_____	_____	_____
D. 375,493	_____	_____	_____

Part 5 Groups and More Groups

Use the *Multiplication Strategies Menu* in the *Student Guide* Reference section.

1. Bessie Coleman School is holding a fund-raiser. The money earned will go towards buying new books for the school library. Jacob is in charge of pouring lemonade at the fund-raiser. He has 19 packages of paper cups. Each package has 20 cups. About how many cups does he have?

2. Lee Yah is in charge of selling hot dogs. She has 36 packages of hot dog buns at the start of the day. Each package has 8 buns. How many hot dogs can she sell?

3. Jacob is selling raffle tickets. One raffle ticket sells for $4.

   A. So far he has collected $160. How many raffle tickets did he sell?

   B. His goal is to collect $400. How many more raffle tickets must he sell to reach his goal?

4. Ten people can sit at one table for Bingo. There are 12 tables for Bingo. How many people can play Bingo at one time?

5. At the fund-raiser, a "meal deal" that includes a hot dog, drink, and chips costs $3. There are 96 students in the eighth grade at Bessie Coleman School. If each eighth grader buys one meal deal, how much money will the eighth-grade class pay in all for their food?

6. Students playing Knock Down the Bottles get 2 balls for a quarter. How many players must pay for the booth to earn $10? How many balls will have been tossed?

Part 6   Multiplying by Tens

1. Solve the following problems.

   A. $6 \times 70 =$ _____   **B.** $8 \times 400 =$ _____   **C.** $800 \times 6 =$ _____

   D. $7000 \times 4 =$ _____   **E.** $800 \times 80 =$ _____   **F.** $60 \times 40 =$ _____

2. Find what *n* must be to make each number sentence true.

   A. $60 \times n = 360$ **B.** $n \times 5 = 350$ **C.** $n \times 900 = 5400$

Part 7   More Multiplication

1. Solve the following problems using paper and pencil or mental math. Use the *Multiplication Strategies Menu* in the *Student Guide* Reference section.

   A. 14
        $\times 7$

   B. 700
        $\times 40$

   C. 42
        $\times 3$

   D. 35
        $\times 8$

   E. 48
        $\times 6$

   F. 600
        $\times 300$

2. Use convenient numbers to estimate the following products.

   A. $50 \times 61 =$ **B.** $89 \times 40 =$ **C.** $397 \times 30 =$

   D. $78 \times 32 =$ **E.** $186 \times 63 =$ **F.** $621 \times 88 =$

Part 8 Using Estimation

Use the information in the table to estimate the answers to the questions below. Record your work on a separate sheet of paper.

Ballpark Attendance at Games in 2011

Baseball Team	Number of Atttendance	Baseball Team	Number of Atttendance
Arizona Diamondbacks	2,128,765	Minnesota Twins	2,416,237
Atlanta Braves	2,373,631	New York Yankees	3,719,358
Baltimore Orioles	1,907,163	Philadelphia Phillies	3,600,693
Chicago Cubs	3,168,859	Pittsburgh Pirates	1,577,853
Chicago White Sox	2,284,163	Seattle Mariners	2,195,533

1. List the five teams with the greatest attendance. Order the teams and their attendance from largest to smallest.

2. About how many more people attended New York Yankees games than Pittsburgh Pirates games?

3. About how many more people attended Philadelphia Phillies games than Chicago Cubs games?

4. Which team has about double the attendance of the Pittsburgh Pirates?

5. About how many more people attended Minnesota Twins games than Arizona Diamondbacks games?

6. About how many fans enjoyed baseball in these ten ballparks?

7. Estimate these products. Then find an exact answer using paper and pencil or mental math. Use the *Multiplication Strategies Menu* in the *Student Guide* Reference section.

   A. 53   **B.** 38   **C.** 77   **D.** 65
       ×4   ×2   ×3   ×5

Part 2. Order of Operations

Questions 1–2 (TG p. 1)

1. **A.** 19   **B.** 36
   C. 15   **D.** 38
   E. 72   **F.** 46
   G. 74   **H.** 103

2. Answers will vary.

Part 3. Divisibility

Questions 1–5 (TG p. 2)

1. 85,680; 27,786; 1028; 10,782. Students' explanations will vary. Possible explanations are: all the even numbers are divisible by two, or numbers that have a 0, 2, 4, 6, or 8 in the ones place are divisible by two.

2. 567; 85,680; 27,786; 10,782. Students' explanations will vary. Students might divide each number by 3 and see if there is a remainder, or they might add the digits in each number to see if the sum is a multiple of three.

3. 85,680; 27,786; 10,782. Students' explanations will vary. Students should choose all numbers in common between *Questions 1* and *2.* Numbers that are divisible by 2 and 3 are also divisible by 6.

4. 85,680. Students' explanations will vary. Students might say that numbers that have a 0 or a 5 in the ones place are divisible by 5 and numbers that have a 0 in the ones place are divisible by 10.

5. 567; 85,680; 10,782. Students' explanations will vary. Students might divide each number by 9 and see if there is a remainder, or they might add the digits in each number to see if the sum is a multiple of nine.

Part 4. Rounding

Questions A–D (TG p. 2)

A   D   B   C

300,000   350,000   400,000   450,000   500,000

A. 338,000   340,000   300,000
B. 414,000   410,000   400,000
C. 489,000   490,000   500,000
D. 375,000   380,000   400,000

Name _____ Date _____

Unit 7: Home Practice

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Part 2   Order of Operations

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   E. $8 \times (6 - 3) \times 3 = $ _____   **F.** $36 \div 9 + 6 \times 7 = $ _____

   G. $7 + 9 \times 8 - 5 = $ _____   **H.** $100 - 49 \div 7 + 10 = $ _____

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Name _____ Date _____

Part 3   Divisibility

Answer the questions about the numbers listed below.

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1. Which numbers are divisible by 2? How did you decide?

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4. Which are divisible by 5 and 10? How did you decide?

5. Which are divisible by 9? How did you decide?

Part 4   Rounding

Place the numbers on the number line using their letters. Then use the number line to round the numbers as directed.

300,000   350,000   400,000   450,000   500,000

	Nearest thousand	Nearest ten thousand	Nearest hundred thousand
A. 337,894	_____	_____	_____
B. 414,112	_____	_____	_____
C. 488,792	_____	_____	_____
D. 375,493	_____	_____	_____

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Name _____ Date _____

Part 5 Groups and More Groups

Use the *Multiplication Strategies Menu* in the *Student Guide* Reference section.

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Name _____ Date _____

Part 6 Multiplying by Tens

1. Solve the following problems.

   A. $6 \times 70 =$ _____   B. $8 \times 400 =$ _____   C. $800 \times 6 =$ _____

   D. $7000 \times 4 =$ _____   E. $800 \times 80 =$ _____   F. $60 \times 40 =$ _____

2. Find what *n* must be to make each number sentence true.

   A. $60 \times n = 360$ B. $n \times 5 = 350$ C. $n \times 900 = 5400$

Part 7 More Multiplication

1. Solve the following problems using paper and pencil or mental math. Use the *Multiplication Strategies Menu* in the *Student Guide* Reference section.

   A. $\begin{array}{r} 14 \\ \times 7 \\ \hline \end{array}$ B. $\begin{array}{r} 700 \\ \times 40 \\ \hline \end{array}$ C. $\begin{array}{r} 42 \\ \times 3 \\ \hline \end{array}$

   D. $\begin{array}{r} 35 \\ \times 8 \\ \hline \end{array}$ E. $\begin{array}{r} 48 \\ \times 6 \\ \hline \end{array}$ F. $\begin{array}{r} 600 \\ \times 300 \\ \hline \end{array}$

2. Use convenient numbers to estimate the following products.

   A. $50 \times 61 =$ B. $89 \times 40 =$ C. $397 \times 30 =$

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Part 5. Groups and More Groups

Questions 1–6 (TG p. 3)

1. Estimates will vary. One possible estimate: 400 cups
2. 288 hotdogs
3. **A.** 40 raffle tickets
   B. 60 more raffle tickets
4. 120 people
5. $288
6. 40 players; 80 balls

Part 6. Multiplying by Tens

Questions 1–2 (TG p. 4)

1. **A.** 420
   B. 3200
   C. 4800
   D. 28,000
   E. 64,000
   F. 2400
2. **A.** 6
   B. 70
   C. 6

Part 7. More Multiplication

Questions 1–2 (TG p. 4)

1. **A.** 98
   B. 28,000
   C. 126
   D. 280
   E. 288
   F. 180,000
2. **A.** One possible estimate: $50 \times 60 = 3000$
   B. One possible estimate: $90 \times 40 = 3600$
   C. One possible estimate: $400 \times 30 = 12,000$
   D. One possible estimate: $80 \times 30 = 2400$
   E. One possible estimate: $200 \times 60 = 12,000$
   F. One possible estimate: $600 \times 90 = 54,000$

Part 8. Using Estimation

Questions 1–7 (TG p. 5)

1.
New York Yankees	3,719,358
Philadelphia Phillies	3,600,693
Chicago Cubs	3,168,859
Minnesota Twins	2,416,237
Atlanta Braves	2,373,631

2. Possible response: About 2 million more people attended New York Yankees games: 4,000,000 – 2,000,000 = 2,000,000

3. About 400,000 more attended Philadelphia Phillies: 3,600,000 – 3,200,000.

4. Chicago Cubs has about double the attendance of Pittsbtgh Pirates: 3,200,000 is about double 1,600,000.

5. About 300,000 more people attended the Minnesota Twins games: 2,400,000 – 2,100,000.

6. About 25 million people enjoyed baseball in these ball parks: estimate to the closet million.

7. Methods will vary.
  A. Estimate is 200; exact answer is 212.
  B. Estimate is 80; exact answer is 76.
  C. Estimate is 240; exact answer is 231.
  D. Estimate is 300 or 350; exact answer is 325.

Name _____ Date _____

Part 8 Using Estimation

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