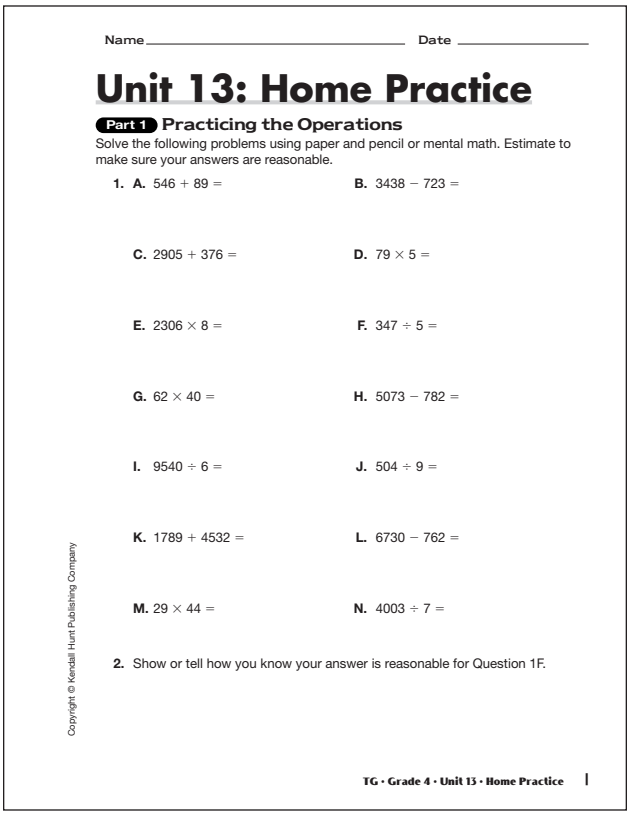

Name _____ Date _____

Unit 13: Home Practice

Part 1 Practicing the Operations

Solve the following problems using paper and pencil or mental math. Estimate to make sure your answers are reasonable.

1. **A.** 546 + 89 = **B.** 3438 − 723 =

   C. 2905 + 376 = **D.** 79 × 5 =

   E. 2306 × 8 = **F.** 347 ÷ 5 =

   G. 62 × 40 = **H.** 5073 − 782 =

   I. 9540 ÷ 6 = **J.** 504 ÷ 9 =

   K. 1789 + 4532 = **L.** 6730 − 762 =

   M. 29 × 44 = **N.** 4003 ÷ 7 =

2. Show or tell how you know your answer is reasonable for Question 1F.

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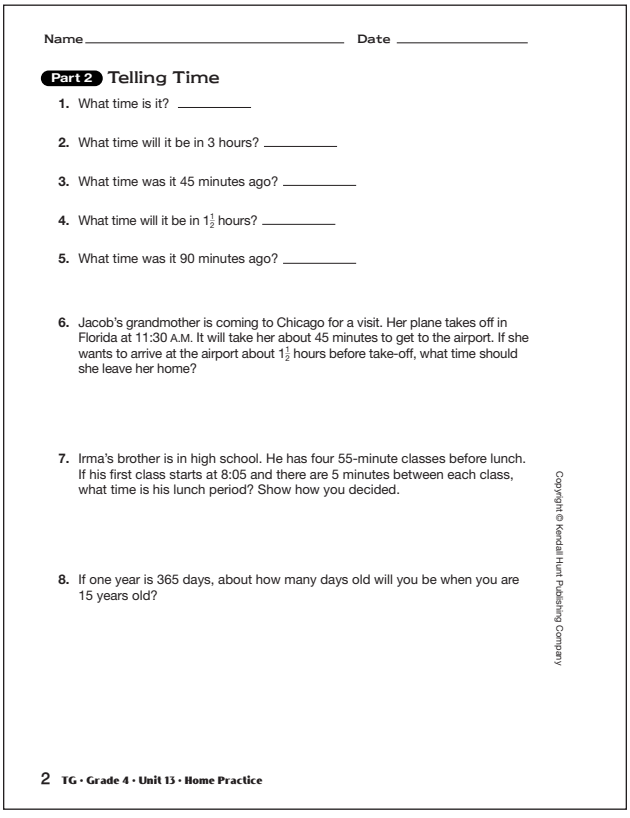

Name _____ Date _____

Part 2 Telling Time

1. What time is it? _____
2. What time will it be in 3 hours? _____
3. What time was it 45 minutes ago? _____
4. What time will it be in $1\frac{1}{2}$ hours? _____
5. What time was it 90 minutes ago? _____
6. Jacob's grandmother is coming to Chicago for a visit. Her plane takes off in Florida at 11:30 A.M. It will take her about 45 minutes to get to the airport. If she wants to arrive at the airport about $1\frac{1}{2}$ hours before take-off, what time should she leave her home?
7. Irma's brother is in high school. He has four 55-minute classes before lunch. If his first class starts at 8:05 and there are 5 minutes between each class, what time is his lunch period? Show how you decided.
8. If one year is 365 days, about how many days old will you be when you are 15 years old?

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Home Practice

Part 1. Practicing the Operations

Questions 1–2 (TG p. 1)

1. **A.** 635 **B.** 2715
   C. 3281 **D.** 395
   E. 18,448 **F.** 69 R2
   G. 2480 **H.** 4291
   I. 1590 **J.** 56
   K. 6321 **L.** 5968
   M. 1276 **N.** 571 R6
2. Possible strategy: 350 ÷ 5 = 70; so the answer should be close to 70.

Part 2. Telling Time

Questions 1–8 (TG p. 2)

1.–5. Answers will vary depending on the time given in ***Question 1.***

6. 9:15 A.M.
7. Figuring in the 5 minutes between classes, lunch starts at 12:05 P.M. His first class is from 8:05 to 9:00. His second class is from 9:05 to 10:00. His third class is from 10:05 to 11:00. His fourth class is from 11:05 to 12:00.
8. About 5475 days (365 × 15, not counting leap years).

Part 3. Solving Problems

Questions 1–6 (TG p. 3)

1. $660
2. $161
3. $191
4. Estimates will vary. One possible estimate is 140 cards ($2 \times 50 + 40$).
5. 144 pictures
6. Estimates will vary. About 20 miles ($145 + 90 + 120 = 355$ and $375 - 355 = 20$). About 15 miles ($150 + 90 + 120 = 360$ and $375 - 360 = 15$).

Part 4. Multiples of 10 and 100

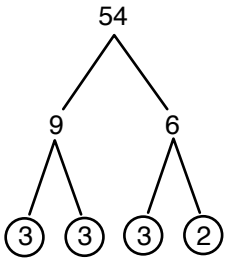
Questions 1–6 (TG p. 4)

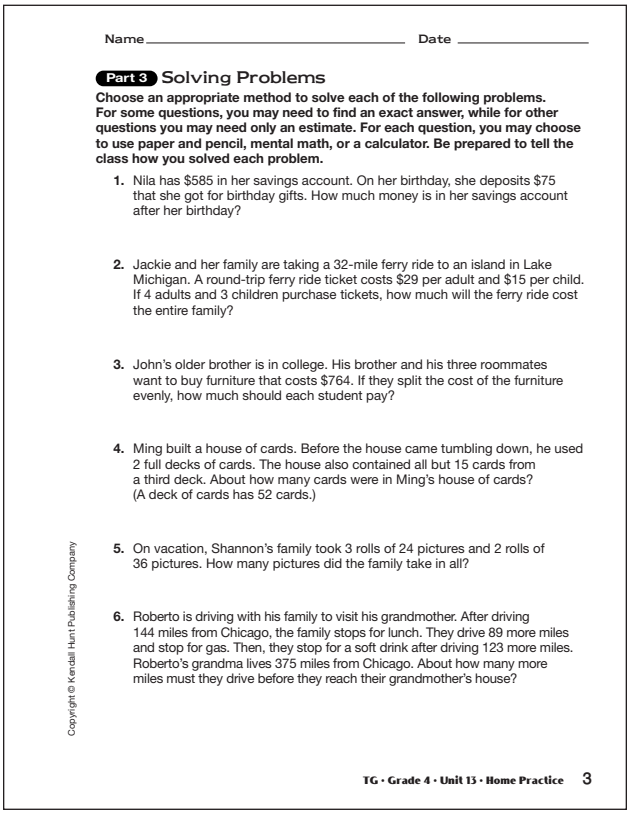
1. 320; 80
2. 240; 6
3. 280; 4
4. 420; 60
5. 560; 8
6. 4800; 60

Part 5. Number Relationships Questions 1–3 (TG p. 4)

Explanations will vary for Questions 1 and 2.

1. A. No. $3 \times 17 = 51$
   B. Yes. Its only factors are 1 and 53.
   C. No. $55 \div 5 = 11$
2. A. Yes. 6 divides 96 evenly; $96 \div 6 = 16$; The sum of the digits of 96 ($9 + 6 = 15$) is a multiple of 3. 96 is also an even number. Since it is divisible by 2 and 3, it is divisible by 6.
   B. No. 6 does not divide 116 evenly; $116 \div 6 = 19.333\ldots$ See explanation for 2A.
3. Answers will vary. One possible factor tree is shown.





Name _____ Date _____

Part 3 Solving Problems

Choose an appropriate method to solve each of the following problems. For some questions, you may need to find an exact answer, while for other questions you may need only an estimate. For each question, you may choose to use paper and pencil, mental math, or a calculator. Be prepared to tell the class how you solved each problem.

1. Nila has $585 in her savings account. On her birthday, she deposits $75 that she got for birthday gifts. How much money is in her savings account after her birthday?
2. Jackie and her family are taking a 32-mile ferry ride to an island in Lake Michigan. A round-trip ferry ride ticket costs $29 per adult and $15 per child. If 4 adults and 3 children purchase tickets, how much will the ferry ride cost the entire family?
3. John's older brother is in college. His brother and his three roommates want to buy furniture that costs $764. If they split the cost of the furniture evenly, how much should each student pay?
4. Ming built a house of cards. Before the house came tumbling down, he used 2 full decks of cards. The house also contained all but 15 cards from a third deck. About how many cards were in Ming's house of cards? (A deck of cards has 52 cards.)
5. On vacation, Shannon's family took 3 rolls of 24 pictures and 2 rolls of 36 pictures. How many pictures did the family take in all?
6. Roberto is driving with his family to visit his grandmother. After driving 144 miles from Chicago, the family stops for lunch. They drive 89 more miles and stop for gas. Then, they stop for a soft drink after driving 123 more miles. Roberto's grandma lives 375 miles from Chicago. About how many more miles must they drive before they reach their grandmother's house?

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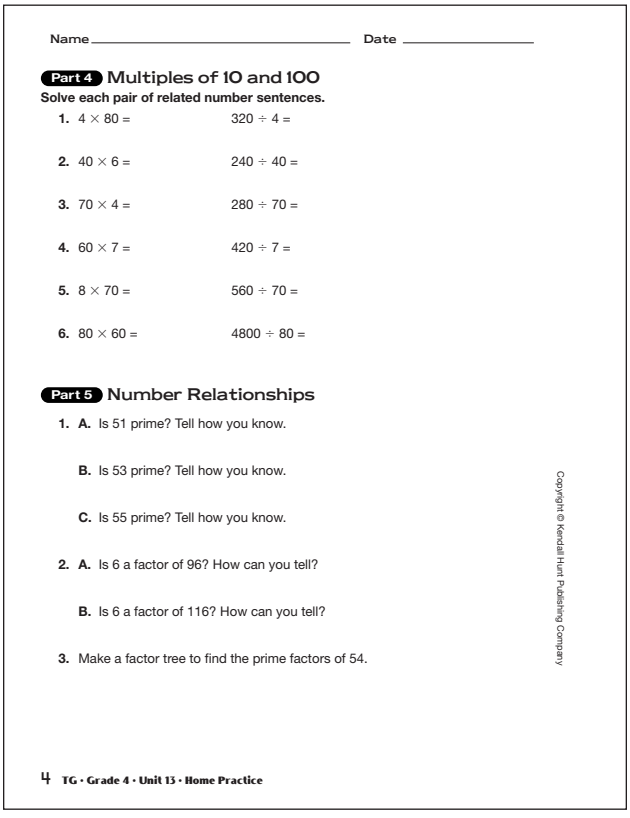

Name _____ Date _____

Part 4 Multiples of 10 and 100

Solve each pair of related number sentences.

1. $4 \times 80 =$ ____ $320 \div 4 =$ ____
2. $40 \times 6 =$ ____ $240 \div 40 =$ ____
3. $70 \times 4 =$ ____ $280 \div 70 =$ ____
4. $60 \times 7 =$ ____ $420 \div 7 =$ ____
5. $8 \times 70 =$ ____ $560 \div 70 =$ ____
6. $80 \times 60 =$ ____ $4800 \div 80 =$ ____

Part 5 Number Relationships

1. A. Is 51 prime? Tell how you know.
   B. Is 53 prime? Tell how you know.
   C. Is 55 prime? Tell how you know.
2. A. Is 6 a factor of 96? How can you tell?
   B. Is 6 a factor of 116? How can you tell?
3. Make a factor tree to find the prime factors of 54.

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Part 6. Function Machines

Questions 1–2 (TG p. 5)

Name _____ Date _____

Part 6 Function Machines

1. Complete each function table. Use the rules in the second column.

A.

Input	Output
N	**$8 \times N - 4$**
1	4
3	*20*
5	*36*
7	*52*
9	*68*
11	*84*

B.

Input	Output
N	**$50 - N \times 2$**
2	46
4	*42*
6	*38*
8	*34*
10	*30*
12	*26*

C.

Input	Output
N	**$7 \times N + 2$**
4	*30*
6	*44*
8	*58*
10	72

D.

Input	Output
N	**$9 \times N$**
5	*45*
7	63
8	72
10	90

2. Find the rule for each function table. Write the rule in the second column. Then, find the missing numbers in each of the table.

A.

Input	Output
N	*N − 6*
11	5
15	9
23	17
33	27
59	53
100	*94*

B.

Input	Output
N	*N × 20*
4	80
5	100
7	140
9	180
10	200
30	*600*

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