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Unit 8: Home Practice

Part 1 Triangle Flash Cards: All the Facts

Study for the quiz on the multiplication and division facts. Take home your Triangle Flash Cards and your list of facts you need to study.

Ask a family member to choose one flash card at a time. To quiz you on a multiplication fact, he or she should cover the corner containing the highest number. (The highest number on each card is slightly shaded.) This number will be the answer to the multiplication fact. Multiply the two uncovered numbers.

To quiz you on a division fact, your family member can cover one of the unshaded numbers. Then use the two uncovered numbers to solve a division fact.

Ask your family member to mix up the multiplication and division facts. He or she should sometimes cover the highest number and sometimes cover one of the smaller numbers.

Your teacher will let you know when the quiz on the multiplication and division facts will be.

Part 2 Division Practice

- A. $45 \div 9 =$ _____ B. $4 \div 2 =$ _____ C. $10 \div 5 =$ _____
 D. $9 \div 3 =$ _____ E. $60 \div 6 =$ _____ F. $25 \div 5 =$ _____
 G. $40 \div 5 =$ _____ H. $36 \div 6 =$ _____ I. $30 \div 10 =$ _____
 J. $8 \div 4 =$ _____ K. $20 \div 4 =$ _____ L. $12 \div 6 =$ _____
 M. $80 \div 8 =$ _____ N. $14 \div 2 =$ _____ O. $90 \div 10 =$ _____

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Part 2. Division Practice (TG p. 1) Questions A–O

- A. 5 B. 2 C. 2
 D. 3 E. 10 F. 5
 G. 8 H. 6 I. 3
 J. 2 K. 5 L. 2
 M. 10 N. 7 O. 9

Part 3. Practicing Operations (TG p. 2) Questions A–F

- A. 523 B. 7427 C. 1404
 D. 4465 E. 1260 R6 F. 582 R2

Part 4. Fractions and Decimals (TG p. 54) Questions 1–2

1. Fraction to Decimal 2. Decimal to Fraction

| Fraction | Decimal |
|------------------|---------|
| $\frac{1}{4}$ | .25 |
| $\frac{98}{100}$ | .98 |
| $\frac{5}{100}$ | .05 |
| $\frac{16}{100}$ | .16 |
| $\frac{1}{2}$ | .5 |
| $\frac{2}{5}$ | .4 |
| $\frac{6}{20}$ | .30 |

| Fraction | Decimal |
|-------------------------------------|---------|
| $\frac{20}{100}$ | .2 |
| $1\frac{5}{100}$ or $1\frac{1}{20}$ | 1.05 |
| $\frac{1}{100}$ | .01 |
| $\frac{75}{100}$ or $\frac{3}{4}$ | .75 |
| $\frac{7}{100}$ | .07 |
| $1\frac{2}{10}$ or $1\frac{1}{5}$ | 1.2 |
| $\frac{4}{1000}$ or $\frac{1}{250}$ | .004 |

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Part 3 Practicing Operations

Choose a strategy to solve each problem. Use the resources in the Student Guide Reference section.

- A. $248 + 275 =$ B. $8202 - 775 =$ C. $26 \times 54 =$
 D. $893 \times 5 =$ E. $9 \overline{)11,346}$ F. $3 \overline{)1748}$

Part 4 Fractions and Decimals

Fill in the chart. Write each number as a fraction and a decimal. The first one is done for you. Use your Hundredths Circle from Lesson 2 as a resource.

| 1. Fraction to Decimal | | 2. Decimal to Fraction | |
|------------------------|---------|------------------------|---------|
| Fraction | Decimal | Fraction | Decimal |
| $\frac{1}{4}$ | .25 | $\frac{20}{100}$ | .2 |
| $\frac{98}{100}$ | | | 1.05 |
| $\frac{5}{100}$ | | | .01 |
| $\frac{16}{100}$ | | | .75 |
| $\frac{1}{2}$ | | | .07 |
| $\frac{2}{5}$ | | | 1.2 |
| $\frac{6}{20}$ | | | .004 |

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Part 5. Adding Fractions (TG p. 3)

Questions A–F

- A. $\frac{3}{4}$ B. $1\frac{1}{4}$ C. $\frac{5}{6}$
 D. $1\frac{1}{6}$ E. $\frac{7}{12}$ F. $1\frac{5}{12}$

Part 6. Reading, Writing, and Comparing Decimals (TG p. 55)

Questions 1–3

1. A. .037
 B. 242.04
 C. 109.014
 D. 0.616
 D. .037 .616 109.014 242.04
2. .06, 0.1, .25, $\frac{1}{2}$, $\frac{3}{4}$, .9
3. A. = B. < C. <
 D. = E. < F. =

Part 7. Order of Operations (TG p. 4)

Questions A–I

- A. 42 B. 43 C. 320
 D. 620 E. 196 F. 400
 G. 6000 H. 495 I. 70

Part 8. Function Machines (TG p. 56)

| Input <i>N</i> | Output $(N + 2) \times 3$ |
|-------------------|------------------------------|
| 1 | 9 |
| 2 | 12 |
| 5 | 21 |
| 6 | 24 |
| 9 | 33 |
| 8 | 30 |
| 12 | 42 |
| 13 | 45 |

| Input <i>N</i> | Output $(N \times 3) + 2$ |
|-------------------|------------------------------|
| 1 | 5 |
| 2 | 8 |
| 4 | 14 |
| 7 | 23 |
| 10 | 32 |
| 12 | 38 |
| 15 | 47 |
| 20 | 62 |

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Part 5 Adding Fractions

A. $\frac{1}{2} + \frac{1}{4} =$ B. $\frac{1}{2} + \frac{3}{4} =$ C. $\frac{1}{2} + \frac{1}{3} =$
 D. $\frac{1}{2} + \frac{2}{3} =$ E. $\frac{1}{3} + \frac{1}{4} =$ F. $\frac{2}{3} + \frac{3}{4} =$

Part 6 Reading, Writing, and Comparing Decimals

1. Write the following numbers as decimals and then put them in order from smallest to largest.

A. thirty-seven thousandths _____
 B. two hundred forty-two and four-hundredths _____
 C. one hundred nine and fourteen-thousandths _____
 D. six hundred sixteen-thousandths _____
 E. _____

2. Write the following numbers in order from smallest to largest.

.9 $\frac{1}{2}$.06 0.1 $\frac{3}{4}$.25

3. Use <, >, or = to make each number sentence true.

A. $\frac{3}{4}$ 0.75 B. .45 4.5 C. .246 .25
 D. .5 $\frac{9}{18}$ E. $\frac{2}{3}$ 0.9 F. .80 $\frac{4}{5}$

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Part 7 Order of Operations

Solve the following problems following the order of operations. Use paper and pencil or mental math.

A. $18 \div 3 \times 7 =$ B. $15 + 24 + 4 =$ C. $350 - 210 \div 7 =$
 D. $60 + 80 \times 7 =$ E. $7^2 \times 2^2 =$ F. $30 \times 80 \div 6 =$
 G. $60 \times 80 + 1200 =$ H. $4500 \div 9 - 5 =$ I. $(130 + 150) \div 4 =$

Part 8 Function Machines

Use the rule that is given to complete each function machine.

| Input <i>N</i> | Output $(N + 2) \times 3$ |
|-------------------|------------------------------|
| 1 | 9 |
| 2 | |
| | 21 |
| 6 | |
| 9 | |
| | 30 |
| 12 | |
| 13 | |

| Input <i>N</i> | Output $(N \times 3) + 2$ |
|-------------------|------------------------------|
| 1 | 5 |
| 2 | |
| | 14 |
| 7 | |
| 10 | |
| | 38 |
| 15 | |
| 20 | |

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Part 9 The Swim Meet

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

1. Shannon is on the swim team. She swam the backstroke in 7 meets. Her times for each race were 53.19 seconds, 49.67 seconds, 47.30 seconds, 43.86 seconds, 46.07 seconds, 45.87 seconds, and 45.91 seconds. What was Shannon's average speed for the backstroke during these meets? (Use the median.)
2. A four-person team is needed to swim the medley relay. Each team member swims 50 meters using a different stroke. During one relay, Lin swam 50 meters using the butterfly stroke in 59.53 seconds, Shannon swam the backstroke in 46.12 seconds, Bianca swam the breaststroke in 53.27 seconds, and Grace finished with the freestyle stroke in 36.41 seconds.
 - A. How many minutes and seconds did it take the team to complete the entire relay?
 - B. What is the total distance that the relay team swam?
3. During the first swim meet of the season, Frank swam the 50-meter breaststroke event in 57.62 seconds. During the final meet of the season, he swam the 50-meter breaststroke in 44.51 seconds. How many seconds faster did Frank swim the 50-meter breaststroke at the end of the season than the beginning?
4. During one swim meet Edward swam in 5 different events. He swam the 100-meter individual medley in 1 minute 38.30 seconds, the 50-meter butterfly in 42.48 seconds, the 50-meter breaststroke in 44.80 seconds, the 50-meter freestyle in 32.83 seconds, and the 50-meter backstroke in 45.87 seconds.
 - A. How many meters did he swim during this meet?
 - B. About how many minutes did Edward spend swimming during this meet?
5. The final swim meet of the season began at 8:30 AM. It ended at 4:45 PM. How long was the swim meet?
6. Parents held a bake sale during each meet to raise money for the team. During one meet, the parents sold cupcakes for \$.25 each. They sold 42 cupcakes. How much money did they get for the cupcakes?
7. The ribbons for the winners cost \$.08 each. During the swim season the team used 648 ribbons. How much did the team spend on the ribbons for this season?

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**Part 9. The Swim Meet (TG p. 5)
Questions 1–7**

1. 46.07 seconds
2. **A.** 3 minutes, 15.33 seconds
B. 200 meters
3. 13.11 seconds faster
4. **A.** 300 meters
B. about 4 minutes
5. 8 hours, 15 minutes
6. \$10.50
7. \$51.84