6ᵗʰ Grade Math Test ~ Quarter 1~ PRACTICE GUIDE

- ☑ For each topic, **review** your NOTES, HANDOUTS, HOMEWORK, and TESTS/QUIZZES.
- ☑ **Practice** problems **from your math book** and **online** practice sites or create new ones!
  Check out the **"Extra Practice" and "Skills Review" sections** in the back of your book.
- ☑ Find a study buddy! Rewrite notes, create flash cards, play games … practice, practice, practice!

Vocabulary – Review and use it!

- ☐ *Sum, Difference, Product, Quotient*
- ☐ *Evaluate*
- ☐ *Decimal*
- ☐ *Place value*
- ☐ *Decimal point*
- ☐ *Prime, Composite*
- ☐ *Prime Factorization*
- ☐ *Greatest Common Factor (GCF), Least Common Multiple (LCM)*
- ☐ *Simplest Form (also Reduce, Lowest term)*
- ☐ *Improper fraction, proper fraction, mixed numbers, equivalent fractions*
- ☐ *(Product as a) Power, Exponential Notation, Exponent*
- ☐ *Fraction*
- ☐ *Improper Fraction*

Prime Factorization

- ☐ **Know how to find the prime factorization for a target number**
- ☐ **Know how to find the target number for a given prime factorization**

Exponents

- ☐ **Know how to write a value in exponential notation (as a power)**
- ☐ **Know how to evaluate an expression that is in exponential notation**

Decimals

- ☐ **Understand place value**
- ☐ **Add and subtract decimals**
- ☐ **Multiply and divide decimals**
- ☐ **Solve real-life problems using decimal operations**

Fractions

- ☐ **Change between mixed and improper forms**
- ☐ **Compare and order fractions**
- ☐ **Find equivalent fractions**
- ☐ **Simplify fractions**
- ☐ **Addition and subtraction of fractions**

Factors and Multiples

- ☐ **List all factors of a number**
- ☐ **Find GCF of two or more numbers**
- ☐ **Find LCM of two or more numbers**
- ☐ **Solve real-life problems using GCF and LCM**

Got a question?
Don't keep it to yourself

1) 7.06 + 8.451	2) 58.5 ÷ 12	3) 8.3 x 12.2	4) 9.5 – 4.226
5) Maria has a bread recipe that uses 1.75 pounds of flour per batch. She needs to make this recipe 5 times. How much flour will she need?	6) Ryan's dog has six puppies. Their weight in pounds is as follows- 2.6, 2.05, 2.9, 2.89, 2.74, and 2.29. How much more does the heaviest puppy weigh than the lightest puppy?	7) Manny gets $15.65 as an allowance for bus transportation each month. How many times can he ride the bus if each trip costs $0.75?	8) Jose needs $59.99 for a hoodie sweatshirt. He has $32.69 in his savings and a $25 check from his dad for mowing the lawn 2 weekends in a row. Will he have enough to buy the sweatshirt?
9) Is **270** divisible by 2, 3, 4, 5, 6, 9 and/or 10?	10) Is **172** divisible by 2, 3, 4, 5, 6, 9 and/or 10?	11) List the fifteen prime numbers between 1 and 50.	12) Is 49 prime or composite? Explain.
13) List the FACTORS of 36.	14) List the FACTORS of 54.	15) List the first six MULTIPLES of 12.	16) List the first four MULTIPLES of 30.

17) What is the Prime factorization 48.	18) What is the Prime factorization of 32.
19) Find the GCF of 16 and 48 (either by listing or prime factorization).	20) Find the LCM of 12 and 40 (either by listing or prime factorization).

21) Find TWO equivalent fractions for $\dfrac{21}{42}$.	22) Are $\dfrac{7}{9}$ and $\dfrac{63}{81}$ equivalent?	23) Write each improper fraction as a mixed number. $\dfrac{47}{20} =$ $\dfrac{38}{14} =$
24) What is $\dfrac{72}{96}$ simplified?		25) Write each mixed number as an improper fraction. $7\dfrac{3}{12} =$

26) Write two equivalent fractions that describe the fraction of utensils that are spoons.

27) At a long jump competition, the winner jumped 20 ¾ feet. Write the distance as an improper fraction.

28)   Order the fractions from least to greatest.

$$\frac{7}{9}, \quad \frac{5}{6}, \quad \frac{13}{18}$$

29)   Order the fractions from least to greatest.

$$\frac{3}{8}, \quad \frac{11}{24}, \quad 1\frac{4}{9}$$

30) $6^3 =$

31)   Write as a power
$$10 \times 10 \times 10 \times 10 =$$

32) $13^2 =$

33) Which is greater 5^3 or 3^4 ? Explain.

34) A group of 60 parents will sit behind a group of 84 students in the school auditorium. You want to arrange the groups in rows with the same number of people in each without mixing the groups. What is the greatest number of people you can have in each row?

35) A baseball player pitches every fifth day. An opposing player pitches every fourth day. The two pitchers just pitched on the same day. In how many days will they pitch on the same day again?

36)	37)	38)	39)
$\dfrac{2}{3} + \dfrac{3}{4}$	$\dfrac{7}{10} - \dfrac{5}{12}$	$2\dfrac{1}{6} + 3\dfrac{4}{9}$	$5\dfrac{1}{6} - 2\dfrac{1}{3}$