

# SUMMER PACKAGE 2021 FOR MATH <sup>FUTURE</sup> 6, 7, 8 GRADERS Q OF A.

KNOWING, UNDERSTANDING, RECOGNIZING, IDENTIFYING NUMBERS ARE IMPORTANT. MEMORIZE YOUR MULTIPLICATION FACTS. THE WORD IS AUTOMATICITY - YOU MUST KNOW YOUR TIME TABLES AUTOMATICALLY. (WITHOUT THINKING). FABIEN.

FUTURE 6, 7, 8 GRADERS: WRITE, READ, MEMORIZE, RECOGNIZE

1) TIME TABLES 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 7<sup>th</sup> & 8<sup>th</sup> GRADERS, GO TO

$2 \times 1 = 2$	$3 \times 1 = 3$	$12 \times 1 = 12$	$15 \times 15 = 225$
$2 \times 2 = 4$	$3 \times 2 = 6$	$12 \times 2 = 24$	
$2 \times 3 = 6$	$3 \times 3 = 9$	$12 \times 3 = 36$	
$2 \times 4 = 8$	$3 \times 4 = 12$	$12 \times 4 = 48$	
↓	↓	↓	
$2 \times 12 = 24$	$3 \times 12 = 36$	$12 \times 12 = 144$	

2) SQUARES

$1^2 = 1 \times 1 = 1$	$4^2$	$7^2$	$10^2$	$15^2 = 15 \times 15 = 225$
$2^2 = 2 \times 2 = 4$	$5^2$	$8^2$	$11^2$	$14^2 = 14 \times 14 = 196$
$3^2 = 3 \times 3 = 9$	$6^2$	$9^2$	$12^2$	$13^2 = 13 \times 13 = 169$

3) CUBES

$1^3 = 1 \times 1 \times 1 = 1$	$4^3$	$7^3$	$10^3 = 10 \times 10 \times 10 = 1000$
$2^3 = 2 \times 2 \times 2 = 8$	$5^3$	$8^3$	
$3^3 = 3 \times 3 \times 3 = 27$	$6^3$	$9^3$	

4) PRIME NUMBERS A PRIME NUMBER HAS ONLY 2 FACTORS - ONE AND ITSELF.

2 is Prime. THE ONLY TWO NUMBERS THAT CAN MULTIPLY TO GIVE YOU 2 IS  $1 \times 2$ .

3 is Prime. " " " " " " " " " " 3 is  $1 \times 3$ .

4 is not Prime -  $4 \times 1 = 4$  and  $2 \times 2 = 4$

FIGURE OUT, WRITE, CHECK, MEMORIZE, ALL THE PRIME NUMBERS FROM 1 to 50. CHART UP & STUDY THEM.

5) POWERS  $2^0 = 1$   $2^1 = 2 \times 1 = 2$   $2^2 = 2 \times 2 = 4$   $2^3 = 2 \times 2 \times 2 = 8$

WRITE, UNDERSTAND, MEMORIZE, KNOW THEM UNTIL  $2^{12} = 4096$ . DO A CHART, LOOK AT IT DAILY - MEMORIZE IT, UNDERSTAND IT, KNOW IT.

6) FRACTION, DECIMAL EQUIVALENCY - LEAVE BEST FOR LAST.

YOU KNOW THAT  $\frac{1}{2} = 0.5$  BECAUSE  $\frac{1}{2}$  IS 1 DIVIDED BY 2  $2 \overline{) 1.0}$   
 FIND THE EQUIVALENT DECIMAL FOR  $\frac{1}{2} = 0.5$ ,  $\frac{1}{2} = .5$ ,  $\frac{2}{3} = 1$ .  
 $\frac{0}{3} = 0$ ,  $\frac{1}{3} = 0.3$ ,  $\frac{2}{3} = 0.6$ ,  $\frac{3}{3} = 1$

DO A CHART TO FIND THE DECIMAL EQUIVALENT FOR ALL FRACTIONS FROM  $\frac{1}{2}$  TO  $\frac{8}{8}$ . THAT WILL INCLUDES  $\frac{3}{5}$ ,  $\frac{7}{8}$ ,  $\frac{6}{6}$ ,  $\frac{5}{6}$ ,  $\frac{1}{8}$  ... PUT THEM IN ORDER.

WHEN YOU GET SERIOUS, GET THIS DONE CORRECTLY, UNDERSTAND WHAT YOU ARE DOING, MEMORIZE WITH AUTOMATICITY, ... GOOD. YOU WILL LIKE YOURSELF MORE. THANK YOU

JUNE 2021

# SUMMER PACKAGE FOR UPCOMING 7 & 8 GRADE

- 1) STUDY your Composition Book EVERY DAY  
DISCOVER WHAT YOU WROTE ON it that you FORGOT  
(OR) DID NOT REMEMBER
- 2) LEARN YOUR TIME TABLE (MULTIPLICATION ACTS) to  $15 \times 15 =$   
ADD 13 & 14 & 15 to your Time Table 16 12 -
- 3) LEARN YOUR SQUARES up to  $20^2 = 20 \times 20 = 400$   
AFTER you HAVE MASTERED your 1-15 SQUARES
- 4) LEARN YOUR CUBES TO 3375 (THAT IS  $13^3 = 13 \times 13 \times 13$ )  
AFTER you REVIEW your cubes from  $1^3$  to  $10^3 = 1$  to 1000
- 5) KNOW your Prime numbers from ONE TO ONE HUNDRED.  
AFTER you HAVE STUDY AND MEMORIZE them from 1 to 50.
- 6) REVIEW POWERS of 2 -  $2^0, 2^1, 2^2, 2^3, 2^4, \dots, 2^{12}$   
IN ADDITION LEARN your powers of 3 -  
 $3^0 = 1$   $3^1 = 3$   $3^2 = 9$   $3^3 = 27$  6 . . . .
- 7) REWRITE FRACTION / decimal CHART from 1 to 10  
ADD 7 AND 9 to the chart - FINISH with easy TEN.
- 8) GET A NEW Composition book DURING THE SUMMER  
FOR NEXT YEAR - (WRITE IN IT LEGIBLY).
- 9) WRITE EVERYTHING FROM 1 to 8 (ABOVE) IN IT  
THIS SUMMER - STUDY THEM, MEMORIZE THEM  
KNOW THEM. BE READY TO RECITE WHEN YOU  
COME BACK ON THE FIRST DAY
- 10) TURN IT IN ON DAY 1 NEXT YEAR
- 11) HAVE A GREAT SUMMER (AH AH)

— ~~FABIEN~~ —