Summer Assignment for Students Going Into 6th Grade Pre-Algebra

Directions:

- ❏ Set up Khan Academy to be able to access helpful videos for your summer homework.
    - ❏ Go to khanacademy.org and log in using your JBHA email (if you don't yet have one, use your personal email address).
    - ❏ Go to "Teachers" and enter the code **H6WPX8GF** to add "PreAlgebra - 6th Grade - Summer 2021" to your courses.
    - ❏ You will be added to the course shortly. Once you have been added to the course by your teacher, then you should see a list of recommended videos that match the topics in this packet.
        - ❏ These videos are **not** required. They are optional to provide additional support.
- ❏ Complete this packet one topic at a time following the directions below:
    - ❏ Complete all problems in the section, showing all of your work. If there is no work to show, write a sentence or two explaining your answer. ==**You may not use a calculator on this assignment. Only questions with work and/or explanations will be counted as complete.**==
    - ❏ Write your final answer/solution on the chart on the next page.
    - ❏ Check your answers using the answer key on the last page of this packet.
        - ❏ If a question is wrong, that's okay! Check your work for any mistakes and try again :).
        - ❏ If multiple questions are wrong or you don't understand how to arrive at the correct answer, it's probably time to get extra help (see below).
- ❏ If you need extra help you should:
    - ❏ Follow the directions on the chart to the corresponding video on Khan Academy. All of the videos in the chart are "assigned" to you in your Khan Academy class. No googling required :).
        - ❏ Please make sure to use the link on your Khan Academy class so we have a record of which topics may need to be reviewed upon returning to school in September.
- ❏ Bring this packet with you on the first day of school.
    - ❏ While we will be looking at the chart to see trends across the class, your grade will be based on **completion** not correct answers.
    - ❏ Please draw a ☆ next to any topic you would like your teacher to review with you or the whole class.

Name: _____

Solutions/Reflection Chart

Topic	Question	My Answer	Correct?	Khan Academy Video(s)
Multi-Digit Subtraction	1			**Subtracting Multi-Digit Numbers (2 Videos)**
	2			
Multi-Digit Multiplication	3			**Multiplying Multi-Digit Numbers (3 Videos)**
	4			
Division	5			**Division by 2-Digits (2 Videos)**
	6			
	7			
Place Value	8			**Finding Place Value**
	9			**Place Value Tables**
	10			**Comparing Place Values**
	11			**Understanding Place Value**
	12			**Comparing Whole Number Place Values**
	13			
	14			**Regrouping Whole Number Place Values**
	15			
Decimal Arithmetic	16			**Adding Decimals (3 Videos)**
	17			**Subtracting Decimals (2 Videos)**
	18			**Multiplying Decimals (3 Videos)**
	19			**Dividing Decimals (7 Videos)**
	20			
	21			
	22			
	23			
	24			
	25			

Fraction Arithmetic	26			**Adding and Subtracting Fractions (9 Videos)**
	27			
	28			**Multiplying Fractions (7 Videos)**
	29			**Dividing Fractions (8 Videos)**
	30			
	31			
Arithmetic with Mixed Numbers	32			**Adding and Subtracting Mixed Numbers (4 videos)**
	33			
	34			**Multiplying Mixed Numbers**
	35			
Simplifying Fractions	36			**Equivalent Fractions (4 Videos)**
	37			
	38			
Estimation	39			**Rounding (4 Videos)**
	40			
	41			
	42			
Word Problems	43			**<<See videos above as they contain word problems>>**
	44			
Solving One-Step Equations	45			**One-Step Equations (10 Videos)**
	46			
	47			
	48			
	49			

REMINDER: Please draw a ☆ next to any topic you would like your teacher to review with you or the whole class upon returning to school in the fall

Topic 1: Multiplying multi-digit values

    1.   725 x 39

    2.   102
           x 317

Topic 2: Multi-digit Subtraction

    3.   36,925
        -   3,180

    4.   185,407
        - 77,637

Topic 3: Division

    5. $5 \div 2$

    6. $2 \div 5$

    7. $19 \overline{)247}$

Topic 4: Place Value

Round to the nearest <u>hundred</u>

    8.   429

    9.   3,274

Round to the nearest <u>thousand</u>

    10.   7,693

    11.   41,380

Round to the nearest <u>tenth</u>

12.   5.84

13.   13.192

Round to the nearest <u>hundredth</u>

14.   84.307

15.   108.5163

Topic 5: Decimal Arithmetic

16.   16.5 + 3.02

17.   5.8 + 1.52

18.   8.3 - 2.7

19.   20.7 - 8.2

20.   417.03 - 96.2

21.   4.2 x 3

22.   5.1 x 4.2

23.   4.2 ÷ 0.7

24.   6.39 ÷ 9

25.   0.2 ÷ 0.3

Topic 6: Fraction Arithmetic (Simplify when possible)

26. $\dfrac{3}{7} + \dfrac{2}{7} =$

27. $\dfrac{7}{10} - \dfrac{3}{10}$

28. $\dfrac{5}{12} + \dfrac{1}{6}$

29. $\dfrac{7}{8} - \dfrac{1}{4}$

30. $\dfrac{5}{14} + \dfrac{6}{21}$

31. $\dfrac{7}{15} - \dfrac{1}{25}$

Topic 7: Arithmetic with Mixed Numbers (Leave answers as mixed numbers when possible)

32. $3\dfrac{1}{9} + 1\dfrac{5}{9}$

33. $6\dfrac{8}{11} - 4\dfrac{3}{11}$

34. $1\dfrac{2}{5} + 3\dfrac{9}{10}$

35. $5\dfrac{1}{3} - 3\dfrac{2}{3}$

Topic 8: Simplifying Fractions

36. $\dfrac{8}{24}$

37. $\dfrac{9}{60}$

38. $\dfrac{100}{24}$

Topic 9: Estimation (answers may vary)

Estimate each answer

39.   21 + 48 + 9

40.   39 x 4

42. $11.15 + $18.75 + $41.35

42.   47 ÷ 8

Topic 10: Word Problems

43.   Your club is making gift baskets to sell to raise money for a trip. The club has 350 wrapped soaps to put into the gift baskets. If there will be 4 soaps in each basket, how many baskets can the club make?

44.   Sam had $50 to shop for clothes. He bought 3 pairs of socks for $2 each, a shirt for $14.50 and a pair of pants for $23.00. How much money did Sam have left over?

Topic 11: Solving One-step Equations

    45. $2x = 6$ 46. $x + 7 = 9$

    47. $x - 3 = 4$ 48. $x \div 4 = 2$

    49. $\dfrac{x}{4} = 6$

Answer Key:

1. 28,275	18. 5.6	35. $1\frac{2}{3}$
2. 32,334	19. 12.5	36. $\frac{1}{3}$
3. 33,745	20. 320.83	37. $\frac{3}{20}$
4. 107,770	21. 12.6	38. $4\frac{1}{6}$ or $\frac{25}{6}$
5. 2.5 or $\frac{5}{2}$ or $2\frac{1}{2}$	22. 21.42	39. 80
6. 0.4 or $\frac{2}{5}$	23. 6	40. 160
7. 13	24. 0.71	41. $70
8. 400	25. $0.\overline{6}$	42. 6
9. 3,300	26. $\frac{5}{7}$	43. 87
10. 8,000	27. $\frac{2}{5}$	44. $6.50
11. 41,000	28. $\frac{7}{12}$	45. 3
12. 5.8	29. $\frac{5}{8}$	46. 2
13. 13.2	30. $\frac{9}{14}$	47. 7
14. 18.31	31. $\frac{32}{75}$	48. 8
15. 108.52	32. $4\frac{2}{3}$	49. 24
16. 19.52	33. $2\frac{5}{11}$	
17. 7.32	34. $5\frac{3}{10}$	