THE KNOX SCHOOL

Math 6
2020 Summer Assignment

Directions: You must show all work, even for multiple choice. Any graphing problem should be done without a graphing calculator.

Due Date: First day of school! You will be held accountable for this material upon your return to school. Yes, that means a test or a quiz on this material is going to happen.

Part 1: Whole Numbers Review

Find each product. Show your work.

1. 238 x 5	2. 832 x 156
3. 4,899 x 67	4. 756 x 300
5. 19 x 863	6. 188x 732
7. 3,249 x 173	8. 609 x 840

Find each quotient. Show all work.

9. 876÷2	10. 9,473÷5
11. 396÷24	12. 8,911÷45
13. 700÷12	14. 1,065÷15
15. 2,737÷305	16. 4,516÷22

Solve each problem, showing all work.

17. Mr. Bing bought 5 boxes of 15 pencils to give to his students. If he has 26 students in his class, how many pencils can he give each student? How many pencils will he have left over?
18. Rachel and her 3 friends split a bag of candy evenly. They each ate 13 pieces of candy and there were 2 pieces leftover. How many pieces of candy were originally in the bag?

Part 2: Decimals Review

Find each sum or difference. Show your work.

19. 8.74 + 10.36	20. 37.4 - 8.55
21. 12.9 + 105.67	22. 450.89 - 213.33
23. 24.1 + 3.74	24. 14.76 - 9.8
25. 622.85 + 53.49	26. 67 - 14.06

Find each product or quotient. Show your work.

27. 4.5 x 6	28. 2.7 x 0.8
29. 8.9 x 2.5	30. 14.8 x 0.12

Solve each problem, showing all work.

31. Ross spent $3.25 on lunch every day, Monday through Friday. If he had $20 at the start of the week, how much money did he have left after Friday?
32. Three friends went out to lunch. The bill came to $47.31. If they split the bill evenly, how much money does each friend owe?

Part 3: Fractions Review

Find each sum or difference. Show your work.

33. $\frac{7}{8} + \frac{5}{6}$	34. $\frac{9}{10} - \frac{1}{2}$
35. $\frac{3}{11} + \frac{2}{3}$	36. $\frac{11}{12} - \frac{13}{18}$
37. $4\frac{5}{9} + 7\frac{1}{3}$	38. $12\frac{9}{14} - 9\frac{3}{7}$
39. $3\frac{3}{5} + 2\frac{3}{4}$	40. $2\frac{2}{15} - 1\frac{2}{3}$

Find each product or quotient. Show your work.

41. $\frac{1}{6} \times \frac{3}{4}$	42. $15 \times \frac{2}{3}$
43. $\frac{4}{5} \div \frac{2}{3}$	44. $3\frac{1}{4} \div \frac{2}{5}$

Solve each problem, showing all work.

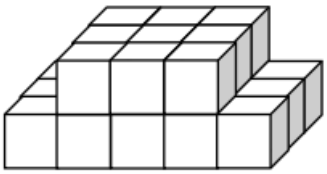
45. Monica ran $1\frac{1}{2}$ miles on Monday, Wednesday, and Friday and $\frac{3}{4}$ miles on Tuesday and Thursday. How far did she run in all?
46. Joey gave 3 packs of baseball cards to his friends. He gave each friend $\frac{1}{3}$ of a pack. How many friends got baseball cards?

Part 4: Volume Review

Find the volume of each figure. Show your work.

Recall:
Volume is the number of cubic units inside a figure.
Volume of a Rectangular Prism = Length x width x height
Volume of Irregular Figure: count cubic units.

47.



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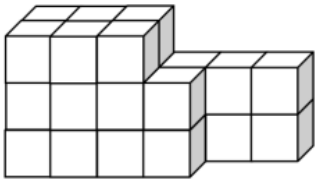

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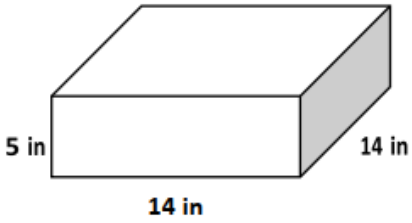

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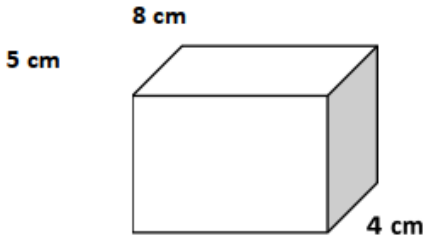
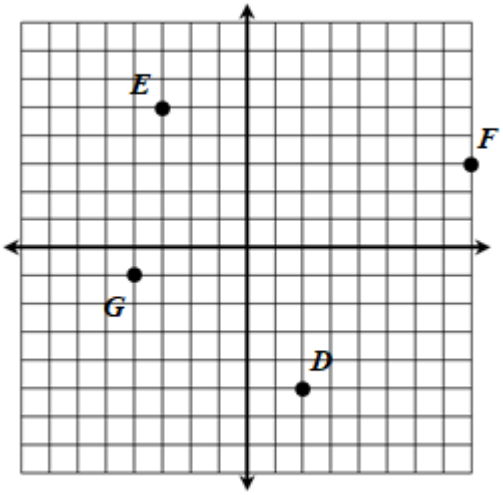


Part 5: Coordinate Plane

Use the graph below for the following questions:



51.Write the coordinates of each point on the graph as an ordered pair.

E

F

G

D

52. What point lies in Quadrant I?

53. What point lies in Quadrant II?