



7th Grade Math - Summer Review Packet – 2022

DUE AUGUST 31, 2022 in the appropriate Google Classroom

Welcome to Saint Dominic Academy! We are glad you are here with us.

In preparation for the Fall Semester, this assignment is required to prepare you for your Pre-Algebra or Algebra 1 Course.

About Pre-Algebra & Algebra I:

Algebra teaches students to think, reason, and communicate mathematically. Students use variables to determine solutions to real world problems. Skills gained in Algebra provide students with a foundation for subsequent math courses. Students use a graphing calculator as an integral tool in analyzing data and modeling functions to represent real world applications. Each student is expected to use calculators in class, on homework, during tests, and during midterm and final exams. You will be able to use this calculator for your four years at Saint Dominic Academy Academy and beyond. Calculators can be purchased on-line and in many department stores, i.e., Target.

Expectations of the Summer Packet:

The problems in this packet are designed to help you review topics that are important to your success in 8th Grade Math. ***All work must be shown for each problem.*** The problems should be done correctly, not just attempted. Don't forget to check your work for problems when solutions can be checked.

All work should be completed and ready to turn in on the first day of classes.

There may be a **QUIZ** at the beginning of the year on this material.

Notes: The internet is a great resource... use it!

Some helpful sites:

www.purplemath.com/modules/index.html

www.youtube.com

www.khanacademy.com

Enjoy your summer!

Use any problem-solving strategy to solve each problem.

- STAMPS** Suppose stamps for postcards cost \$0.28 and stamps for first-class letters cost \$0.44. Diego wanted to send postcards and letters to 10 friends. If he had \$3.60 for stamps and spends all of it, how many postcards and how many letters could he send?
- PATTERNS** If the pattern below continues, where will the heart be in the 20th figure?



- WATER** A 500-gallon bathtub is being filled with water. Eighty gallons of water are in the bathtub after 4 minutes. How long will it take to fill the bathtub?
- GEOGRAPHY** The table shows the areas of the five Great Lakes.
 - About how many times larger is Lake Superior than Lake Ontario?
 - How many square miles do the Great Lakes cover altogether?
- WORK** Two workers can make two chairs in two days. How many chairs can 8 workers working at the same rate make in 20 days?

Name	Area (mi ²)
Lake Superior	31,698
Lake Huron	23,011
Lake Michigan	22,316
Lake Erie	9,922
Lake Ontario	7,320

Find each sum or difference.

- | | | |
|--------------------|------------------------|-----------------------|
| 6. $9.5 + 8.6$ | 7. $11.25 + 13.46$ | 8. $48.64 + 52.91$ |
| 9. $39.45 + 42.4$ | 10. $178.96 + 201.841$ | 11. $3054.2 + 514.67$ |
| 12. $8.7 - 5.4$ | 13. $142.67 - 98.59$ | 14. $267.84 - 192.41$ |
| 15. $58.6 - 31.65$ | 16. $237.42 - 98.6$ | 17. $982 - 457.28$ |

- SALES** An MP3 player is on sale for \$149.98. If the original price of the MP3 player was \$225.49, how much money will you save?

Find each product or quotient.

- | | | |
|---------------------------|---------------------------|---------------------------|
| 18. 9.4×5 | 20. 7.5×4.3 | 21. 12.6×18.2 |
| 22. 24×6.9 | 23. 42.3×5.24 | 24. 9.865×4.3 |
| 25. $12.4 \div 5$ | 26. $36.98 \div 8.6$ | 27. $38.7828 \div 6.84$ |
| 28. $840.9744 \div 12.96$ | 29. $1877.9904 \div 6.24$ | 30. $782.8886 \div 42.41$ |

- BOWLING** Xavier's bowling average is 185.4 and Lola's average is 122.9. About how many times greater is Xavier's average than Lola's?

Write a verbal rule to describe each pattern or sequence. Then find the tenth term.

32.

Number of Tanks	Number of Fish
1	7
2	14
3	21

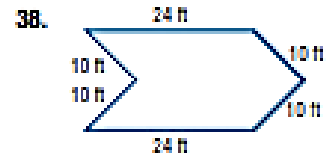
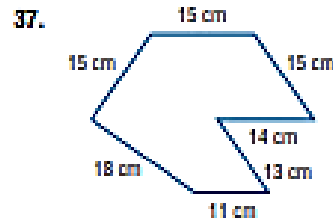
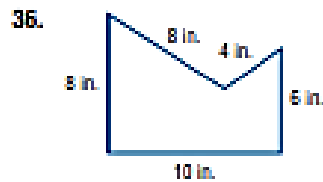
33.

Number of Cars Washed	Money Earned (\$)
1	10
2	15
3	20

34. 8, 9, 10, 11, ...

35. 4, 9, 14, 19, ...

Find the perimeter of each figure.



Write the customary unit that you would use to measure each length.

39. width of a video game system

40. length of a car

41. distance between cities

42. height of a door

Complete.

43. 6160 yd = ■ mi

44. ■ in. = 6 ft

45. ■ ft = 45 yd

46. 2 mi = ■ yd

47. ■ yd = 20 ft

48. 2784 mm = ■ cm

49. 6.4 km = ■ m

50. ■ m = 210 cm

51. ■ cm = 4.3 m

52. **CELL PHONES** The pictograph shows the number of students in each class who have a cell phone. How many times as many students have a cell phone in Mr. Watkins' class as in Mr. Hernandez' class?



= 4 students

53. **TICKETS** The Drama Club is selling tickets for the school play. The bar graph shows the number of tickets sold each day for one week. How many tickets were sold Wednesday through Friday?

