Welcome to Middle School at St. Joseph School!

Dear Students and Guardians

Welcome back to middle school all of our seventh and eighth grade students. We welcome the sixth grade students to our team. To simplify things, the middle school teachers are requiring the same materials for 6th, 7th, and 8th grade students. The list includes everything you will need for your homeroom as well as all other classes. Here is what you need to bring on the first day of school.

- 2 boxes of tissues for classroom use
- 1 roll of paper towels for classroom use
- 2 Clorox wipes containers for classroom use
- headphones/earbuds for in school Chromebook– must be left in school (an extra pair in case one breaks is optional)
- You can bring your own chromebook to school – please see Miss Serio to get it set up on the first day of school
- One package of blue or black pens
- One package of red pens for making corrections
- One package of pencils for Math
- Glue sticks (2 or 3)
- Scissors
- Correction tape (no liquid white out as it is messy)
- A one inch binder for writing and literature
- Package of tab dividers for binder
- One inch binder for Math (separate from writing binder)
- Post it notes for literature
- A box or zippered container to hold school supplies
- A box of colored pencils

*Composition notebooks will need to be provided by the school office. *

<u>Mandatory for 7th and 8th grade students</u>
Purchase a Texas Instruments (TI84) calculator. Stores run sales periodically, so look for special pricing.

Dear Parents,

Students in Middle school are asked to purchase a Daily Planner book and Scholastic magazines for the year. The cost for both is $20.00. (If paying by check make it out to St. Joseph School) Please bring in payment the first day of school. Teachers will send home planners when payment is received.

Thank you

Middle School Teachers

Enjoy the summer break, but remember not to wait until the last minute to complete the assignments. If you have any questions, please email us. Thank you

6th grade homeroom – Mrs. Laferriere for middle school Science and World Language and 6th grade Social Studies

laferriere@stjosephbristol.org

7th grade homeroom – Miss Serio for middle school Language Arts and Literature and 7th grade History and Religion

serio@stjosephbristol.org

8th grade homeroom – Mr. Houle for middle school Math and 8th grade History and Religion

houle@stjosephbristol.org

Middle School Summer Reading Book Report Assignment

Directions: You are to choose ONE book from the Nutmeg Book Award Nominee lists (Middle school lists for grades 7 & 8 or Intermediate 4-6 for Grade 6)or the ALSC Summer Reading List for Grades 6-8. After reading, complete ONE of the questions below. Your question must be one FULL page (that means top to bottom of page) typed in MLA format. Be sure to type the question you are responding to beneath the heading.

1. What important lesson does your character learn in the story? Use examples from the story to support your answer.
2. If you wanted to describe how the main character changed in the story, choose the event that was most important. Describe the event and explain why it changed the character.
3. Think about what this story says about people in general. In what ways does it remind you of people you have read about? Support your answer with evidence from the story.
4. Choose the part of the story that you think was most important. Use information from the story to support your answer.
5. What will your character probably do next? Why do you think so? Use information from the story to support your answer.
6. Write an entry that could have appeared in your character's journal.
7. Which part of the story was most interesting or surprising? Use information from the story to support your answer.
8. Would you recommend this book to anyone? Why or why not? Discuss the character, the main conflict or how it is or isn't resolved or how realistic the character seems in his or her quest to resolve the conflict or how the author revealed the theme through the character and his or her problem. Is this how you would have handled the problem the character has? Why or why not? These are the reasons why we do or do not like books.

Middle School Summer Reading Options

Novels read must be on the student's reading level. They must be chapter books. No graphic novels will be accepted.

Below are suggested books, however if there is one you would rather read please email me the title and author so that I can make sure it is at an appropriate level.

- Percy Jackson Series - Rick Riordan
- Any books from Rick Riordan series
- Bomb - Steve Sheinkin
- The Boy Who Harnessed the Wind - William Kamkwanba
- Code Girls - Liza Mundy
- Echo - Pam Munoz Ryan
- Grenade - Alan Gratz
- Freedom Riders - Ann Bausum
- Through my Eyes - Ruby Bridges
- Hunger Games series - Suzzane Collins
- Chinese Cinderella - Adeline Yen Mah
- Words in the Dust - Trent Reedy
- Hoot - Carl Hiaasen
- Tangerine - Edward Bloor
- All-American Girl - Meg Cabot
- The Storm Runner - J.C. Cervantes
- Words on Fire - Jennifer Nielsen
- The Crossover - Alexander Kwame
- Wishtree - Katherine Applegate
- A Wrinkle in Time - Madeline L'Engle
- Because of Mr. Terupt - Rob Buyea
- Almost Home - Joan Bauer
- Freedom Walkers - Russell Freedman
- Harry Potter Series - J.K. Rowling
- Lord of the Rings series - J.R.R. Tolkien
- Hidden Figures - Young Readers Edition - Margot Lee Shetterly
- In the Shadows of the Sun - Anne Sibley O'Brien
- Restart - Gordon Korman
- Refuge - Alan Gratz
- The Dreamer - Pam Munoz Ryan
- On the Horizon - Lois Lowry
- Nazi Hunters -Neal Bascomb
- Resistance - Jennifer Neilsen

Summer Math Packet
Grade 7

Dear parents and students,
Welcome to pre-algebra. Now that the current year has come to a close and we look forward to summer, we also look forward to the upcoming year. It is requested that all 7th grade students consider purchasing the TI-84 calculator. The cost can range from about $125.00 and up. Look for sales over the summer. This machine will be used often throughout the year, in high school, and in college. It is suggested that parents consider obtaining the optional insurance plan offered at the time of purchase due to accidents. Please be advised that there will be homework (30 to 40 minutes) each night during the week.

I would like to inform parents that additional homework assignments will require the use of a chromebook or computer.

This math packet is to be completed by the beginning of the upcoming school year and will be counted as a quiz grade worth 20%. Students who do not pass in the assignment will result in a 50. <u>All</u> students should continue to practice their multiplication facts up to 12.

Have a great summer!

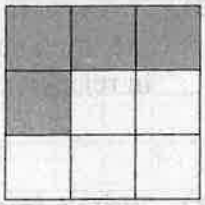
Mr. Houle

Name _____ Class _____ Date _____

Quarter 1 Test — Form A

Chapters 1–3

1. Write the decimal that the model represents. Then write a decimal for the portion of the model that is not shaded.



2. Write 11.017 in words.

3. Write the number in standard form.
$200{,}000 + 6{,}000 + 90 + 6 + 0.04$

4. Use $<$, $>$, or $=$ to complete the statement.
0.35 ? 0.4

5. Round 19.082 to the nearest tenth.

6. Use compatible numbers to estimate.
$47.9 \div 5.99$

7. Allen had $312.18 in his checking account. He wrote a check for $37.12. Find his new balance.

8. Use the data in the chart below. Suppose you have to limit your sugar intake to 2 oz per day.

Food	Sugar Content
Orange Juice (4 oz)	0.417 oz
Plain Granola Bar	0.333 oz
Raisins (7 oz)	0.75 oz
Yogurt (8 oz)	1 oz

   a. How many ounces of sugar did you consume if you drank 8 oz of orange juice and ate two Granola Bars?

   b. Did you go over your daily limit?

9. Place the decimal point in the product. Write zeros as necessary.

$$\begin{array}{r} 1.03 \\ \times\ 0.04 \\ \hline 412 \end{array}$$

10. At $1.75 per pound, what will 2.25 pounds of grapes cost?

11. Divide. $644.8 \div 0.8$

12. Use mental math to find the product.
$123.62 \times 1{,}000$

13. Evaluate. $8 \times (45 \div 4.5) + 20$

14. Write the next two terms in the pattern.
$1, 3.5, 6, 8.5, \ldots$

15. Evaluate the expression.
$6p - 11$ for $p = 5$

16. In the expression $m - 5$, replace m with $4m + 10$. Write the resulting solution.

17. Write an algebraic expression for the word phrase "p decreased by 9."

18. Tell whether the given number is a solution to the equation.
$7x - 5 = 16; 3$

19. Explain what you would do to each side of the equation to solve it.
$x - 17 = 30$

20. Tom weighs 42 pounds more than his sister. If Tom weighs 90 pounds, how much does his sister weigh?

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Name _____ Class _____ Date _____

Quarter 1 Test (continued) Form A

Chapters 1–3

21. You have three times as many baseball cards as your friend. Your friend has 150 cards. Write an expression that represents the number of cards you have.

22. Solve the equation.
$1.2b = 3.6$

23. Evaluate the expression $3p^3$, if $p = 2.5$.

24. Write 23,400,000 in scientific notation.

25. $3 \times 17 = (3 \times 10) + (3 \times 7)$ is an example of what property?

26. Evaluate the expression $6(x - 4)$, if $x = 5.5$.

27. Find the missing variables in the equation.
$12bh - 7bh = (12 - 7)$?

28. Use mental math to determine whether 22,645 is divisible by 9.

29. Use a factor tree to find the prime factorization of 120. Write your answer using exponents.

30. Find the GCF of 24, 72, and 96.

31. If you were to plot the fractions $\frac{3}{12}$ and $\frac{1}{4}$ on the same number line, where would they be in relation to each other?

32. Write a fraction with a denominator of 18 that is equivalent to $\frac{2}{3}$.

33. Write $\frac{44}{6}$ as a mixed number.

34. Find the LCM of 18 and 30.

35. Order the mixed numbers from least to greatest.
$3\frac{4}{7}, 3\frac{8}{15}, 3\frac{1}{2}$

36. Fill in the ? with $<$, $>$, or $=$.
$\frac{23}{9}$? $2\frac{10}{18}$

37. Write 0.135 as a fraction in simplest form.

38. Write $6\frac{7}{20}$ as a decimal.

39. Write six and two fifths as a decimal.

40. The sum of two decimals is 1.2. One of the decimals is twice the other. What are the two decimals?

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Name _____ Class _____ Date _____

Quarter 2 Test — Form A

Chapters 4–6

1. Round $11\frac{7}{12}$ to the nearest whole number.

2. Estimate $7\frac{4}{5} + 9\frac{1}{12}$ by first rounding to the nearest whole number.

3. Add. Write your answer in simplest form.
$\frac{3}{20} + \frac{7}{20} - \frac{2}{20}$

4. Explain how you would add the fractions $\frac{1}{2}$ and $\frac{3}{4}$.

5. Sean rode his bicycle $4\frac{1}{4}$ miles on Saturday and $5\frac{7}{8}$ on Sunday.
How many miles did he ride during the weekend?

6. Add. Write your answer in simplest form.
$11\frac{1}{2} + 3\frac{4}{5} + 6\frac{1}{3}$

7. There are two boards leaning against the wall. The first board is $3\frac{5}{8}$ meters long and the second is $4\frac{1}{4}$
meters long. How much longer is the second board?

8. What is the first step in solving the equation $x + 1\frac{5}{6} = 5$?

9. Solve the equation. Write your answer in simplest form.
$x - 3\frac{11}{12} = 6\frac{5}{12}$

10. Find the elapsed time from 8:35 A.M. to 10:15 A.M.

11. To celebrate its opening day, a carnival gives free admission to every 25th person. The carnival expects 600 people per hour. About how many people will enter free in a 16-hour day?

12. Which product is NOT equal to the others?
$\frac{1}{2} \cdot \frac{8}{5}$, $\frac{5}{4} \cdot \frac{16}{25}$, $\frac{5}{2} \cdot \frac{1}{2}$, $\frac{1}{5} \cdot \frac{4}{1}$

13. A chocolate pie has a total of about 2,200 calories. The pie is divided into 8 equal slices. Write an expression using a fraction to calculate the number of calories in each slice. Then calculate the number of calories in each slice.

14. Find the product. Write your answer as a mixed number in simplest form.
$5\frac{1}{3} \cdot 2\frac{3}{8}$

15. What is the reciprocal of 16?

16. Find the quotient. Write your answer as a mixed number in simplest form.
$\frac{11}{5} \div \frac{8}{24}$

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Name _____ Class _____ Date _____

Quarter 2 Test (continued) — Form A

Chapters 4–6

17. Describe the first step when dividing two mixed numbers.

18. Evaluate the expression below if $y = 4\frac{1}{5}$.
$4\frac{4}{5} + y$

19. Solve the equation. $4\frac{2}{3}k = 3\frac{1}{2}$

20. A leaky faucet drips once every 10 seconds. How many times does the faucet drip in a 24-hour day?

21. Which of the following would not be used to measure length?
meters, ounces, inches, feet

22. Complete the statement.
184 pt = ? gal

23. Solve.
$$\begin{array}{r} 6 \text{ gal } 1 \text{ qt} \\ -\ 2 \text{ gal } 3 \text{ qt} \\ \hline \end{array}$$

24. A cookie recipe calls for 3 cups of flour and 1 cup of sugar. Write the ratio of the amount of flour to the amount of sugar in three ways.

25. Find the unit price if 12 ounces of carrots cost \$1.80.

26. If Steven can trim 5 bushes in 2 hours, how long will it take him to trim 20 bushes?

27. Solve the proportion. $\frac{5}{13} = \frac{4.5}{m}$

28. Use a map scale of 1 inch : 60 miles to find the actual distance between two cities if they are 3.5 inches apart on the map.

29. Write a fraction with a denominator of 10 that is equal to 40%.

30. Write $\frac{18}{20}$ as a decimal and as a percent.

31. The regular price of a CD is \$14.95. The CD is on sale for 20% off of the regular price. Estimate the sale price.

32. In the last school election, 85% of the school voted. If there are 920 students in the school, how many students did NOT vote?

33. A stereo is on sale for \$195.93. This is 30% off of the regular price. What is the regular price of the stereo?

34. Write 0.42% as a fraction in simplest form.

35. What is 140% of 85?

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Name _____ Class _____ Date _____

Quarter 3 Test — Form A

Chapters 7–9

1. Find the median of the data set.
12.9, 7.6, 15, 8.3, 13

2. Kevin scored 89, 91, 78, 100 and 93 on five tests. What score does he need on his sixth test to earn a mean of 90?

Use the frequency table below for Exercises 3–4.

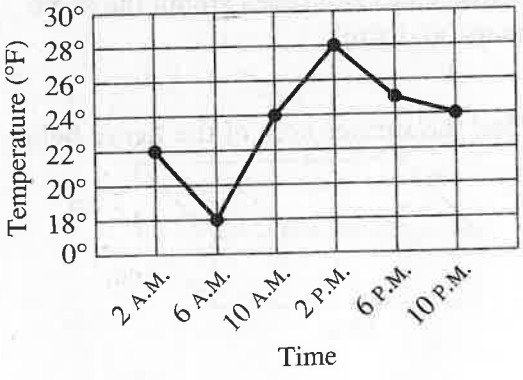
Test Score	Number of Students
100	2
95 – 99	3
90 – 94	3
85 – 89	6
80 – 84	9
75 – 79	4
Below 75	2

3. How many students took the test?

4. Can you determine the range of the scores? Why or why not?

Use the line graph below for Exercises 5–6.

Temperatures in St. James, Jan. 12

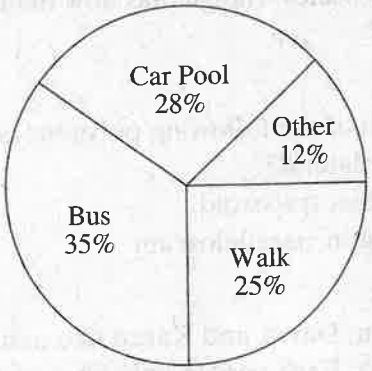


5. What was the highest temperature in St. James and what time did it occur?

6. What was the range of temperatures between 2:00 A.M. and 10:00 P.M.?

7. Use the circle graph below to determine what percent of students do NOT walk *or* take the bus to school.

Transportation to School



Use the stem and leaf plot below for Exercises 8–9.

Stem	Leaf
0	2 7 7 9
1	0 3 5
2	1 7 7
3	4
4	2 5

Key 1|0 = 10

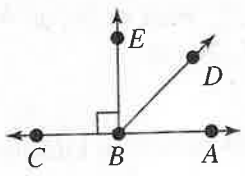
8. What are the least and greatest values?

9. What is the range of the data?

10. Sarah scored 88, 92, 98, 92, and 60 on five tests. Which statistic—mean, median, or mode—would be misleading for this data set and why?

11. Which of the following has two endpoints?
line, ray, segment, point

Use the diagram below for Exercises 12–14.



12. What point is the vertex of $\angle CBD$?

13. Name an acute angle.

14. $\angle ABD + \angle DBE = \angle$?

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Name _____ Class _____ Date _____

Quarter 3 Test (continued) — Form A

Chapters 7–9

15. Find the complement of an angle with measure 42°.

16. An isosceles triangle has how many equal sides?

17. Which of the following polygons is not a quadrilateral?
rhombus, trapezoid,
pentagon, parallelogram

18. LeAnn, David, and Karen like math, history and art. Each person only likes one subject. David is the brother of the person who likes history. Karen recently went to the movies with the person who likes art and the person who likes history. Determine what subject each person likes.

19. If triangle JKL is congruent to triangle PQR, which side of triangle PQR is congruent to side $\overline{JL}$?

20. Describe four lines of symmetry that can be drawn through a square.

21. A ray is pointed straight down. The ray is rotated 90° counter-clockwise. Is the ray now pointed to the left or to the right?

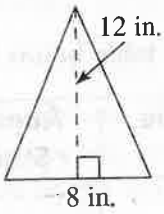
22. Fill in the _?_ with $<$, $>$, or $=$.
100 mm _?_ 10 cm

23. Convert 460 meters to kilometers.

24. Find the perimeter and the area of a rectangle with sides of length 7 cm and 12 cm.

25. The area of a parallelogram is 25 square feet. If the length of the base is 10 feet, what is the height of the parallelogram?

26. Find the area of the triangle.



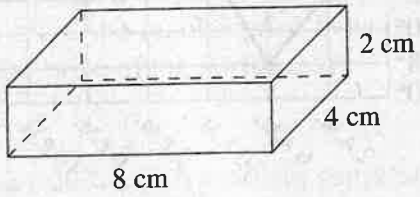
27. A tennis ball is attached to the end of a rope that is 3 feet long. If you spin the ball around in a circle 5 times, how far does it travel?

28. A semicircle is half of a circle. Write two different equations that would represent the area of a semicircle.

29. Find the area of a circle whose circumference is 12π ft. Write your answer in terms of π.

30. What kind of solid is a rectangular prism whose faces and bases are all the same shape and size?

31. Find the surface area of the figure below.



32. The base of a cylinder has a diameter of 6.2 cm. The cylinder is 18 cm tall. What is the volume of the cylinder? Use 3.14 for π.

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Name _____ Class _____ Date _____

Beginning-of-Course Diagnostic Test

1. Multiply. 0.34×0.004

2. Multiply. 321×70

3. Subtract. $5\frac{3}{8} - 1\frac{5}{8}$

4. Divide. $3.2913 \div 9$

5. Estimate. $2\frac{9}{10} \cdot 2\frac{1}{7}$

6. Write a decimal for the given words.
thirteen and one hundred thirteen ten-thousandths

7. Write the fraction in simplest form.
$\frac{25}{70}$

8. Divide $1{,}341 \div 79$. Round to the nearest hundredth.

9. Draw an angle of 75°.

10. Multiply. 1.23×4

11. Write the mixed number as an improper fraction.
$3\frac{2}{11}$

12. Write an integer for the situation.
8 steps up

13. Use $>$ or $<$ to compare the numbers.
13,254 13,524

14. Round to the place of the underlined digit.
14.0472<u>1</u>

15. Divide. $2.2778 \div 1.627$

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GO ON

Name _____ Class _____ Date _____

Beginning-of-Course Diagnostic Test (continued)

16. Round to the place of the underlined digit.

3,2<u>1</u>9

17. Add. 15.623 + 7.3953

18. Multiply. $4\frac{2}{5} \times 2\frac{1}{2}$

19. Write the decimals in order from least to greatest.

5.013; 5.103; 5.301; 5.310; 5.031

20. Divide. 6.2379 ÷ 0.01

21. Divide. 1.92296 ÷ 0.52

22. Estimate. $5\frac{1}{4} \div 1\frac{1}{8}$

23. Divide. 101.52 ÷ 16

24. Add. $2\frac{2}{7} + 1\frac{6}{7}$

25. Divide. 3.41502 ÷ 3.46

26. Multiply. 32.5 × 7

27. Round to the place of the underlined digit.

32,<u>6</u>57

28. Draw an angle of 50°.

29. Divide. 0.85625 ÷ 0.685

30. Use >, <, or = to compare the decimals.

1.5234 15.234

31. Multiply. 67 × 92

32. Write an integer for the situation.

7 steps backward

33. Multiply. 3,625 × 0.001

GO ON

Name _____ Class _____ Date _____

Beginning-of-Course Diagnostic Test (continued)

34. Multiply. $3\frac{1}{3} \times 1\frac{2}{3}$

35. Round to the place of the underlined digit.

4.1234

36. Write the numbers from least to greatest.

33,457; 34,674; 33,687; 34,328; 32,963

37. Subtract. 12.932 − 3.392

38. Divide. 0.0040761 ÷ 0.063

39. Write the decimal in words.

4.032

40. Multiply. 1.008 × 0.003

41. Find the missing number.

$\frac{11}{3} = \frac{\square}{39}$

42. Write the improper fraction as a mixed number.

$\frac{45}{7}$

43. Use >, <, or = to compare the decimals.

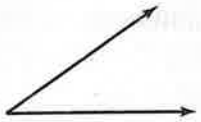
2.16 2.160

44. Estimate. $1\frac{7}{8} + 3\frac{1}{6}$

45. Divide. 3.41502 ÷ 3.46

46. Subtract. 32.589 − 15.0029

47. Measure the angle. Then classify it as *acute*, *right*, or *obtuse*.



48. Divide. 0.567 ÷ 10

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GO ON

Name _____ Class _____ Date _____

Beginning-of-Course Diagnostic Test (continued)

49. Divide. $671 \div 34$
Round to the nearest tenth.

50. Write the mixed number as an improper fraction.
$5\frac{5}{16}$

51. Round to the place of the underlined digit.
1,2<u>3</u>4,567

52. Divide. $57.18 \div 12$

53. Use $>$ or $<$ to compare the numbers.
1,206 121

54. Find the missing number.
$\frac{6}{7} = \frac{18}{\square}$

55. Divide. $\frac{8}{9} \div 1\frac{1}{3}$

56. Multiply. 34×458

57. Compare. Use $>$, $<$, or $=$ to compare the integers.
-12 12

58. Round to the place of the underlined digit.
8.00<u>1</u>56

59. Add. $3\frac{2}{9} + 3\frac{1}{9}$

60. Write a decimal for the given words.
fifty-four hundred-thousandths

61. Multiply. 0.89×0.6

62. Divide. $5.6334 \div 1.23$

63. Multiply. 0.25×0.07

END

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