



## Seventh Grade Supply List 2017- 2018 School Year

### **Homeroom:**

- 2- Boxes of tissues
- 1 bottle of hand sanitizer
- 1 roll of paper towels

### **Spanish & Religion**

- 2 composition notebook (no spiral notebooks)
- 4 folders
- 1 pack of highlighters
- 1 pack of blue or black pens
- 1 pack of red pens
- 2 packs of loose-leaf

### **Science & Social Studies**

- 2 notebooks (no spiral notebooks)
- 2 folders
- blue, black and red pens
- glue sticks

### **Math**

- 1 in. three ring Binder
- Graph paper
- Scientific calculator
- Loose leaf paper
- No. 2 pencils
- Blue or black ink pens

### **ELA**

- 3 Marble Composition notebooks
- 2 Plastic pocket folders
- 2 Boxes of erasable pens - blue or black only
- 2 Boxes of # 2 mechanical pencils
- 1 Package of loose-leaf
- Highlighters – yellow only
- Erasers

**Art**

Small art case or large Ziploc bag –must fit in locker

Crayons

Colored pencils

Glue

Scissors

**Summer Work**Current Students:

- Complete at least 25 lessons (3 per week) in iReady. All current Sacred Heart Grade School students have usernames and passwords.
- Pick a novel of your choice – try to step out of your comfort zone and pick a different genre that you usually do not read. Then you are to write a summary (one paragraph with 9-12 sentence) of the novel. You can type it or write it neatly on loose leaf. Pick your favorite section of the book and draw the scene. You can use your imagination and creativity to create your drawing
- Complete attached Math Review packet

New Students should do all of the above, with the exception of iReady.

- 1) At the sixth-grade school dance, there are 132 boys, 89 girls, and 14 adults.
- Write the ratio of the number of boys to the number of girls.
  - Write the same ratio using another form ( $A : B$  vs.  $A$  to  $B$ ).
  - Write the ratio of the number of boys to the number of adults.
  - Write the same ratio using another form.

- 2) For a project in their health class, Jasmine and Brenda recorded the amount of milk they drank every day. Jasmine drank 2 pints of milk each day, and Brenda drank 3 pints of milk each day.
- Write a ratio of the number of pints of milk Jasmine drank to the number of pints of milk Brenda drank each day.
  - Represent this scenario with tape diagrams.
  - If one pint of milk is equivalent to 2 cups of milk, how many cups of milk did Jasmine and Brenda each drink? How do you know?
  - Write a ratio of the number of cups of milk Jasmine drank to the number of cups of milk Brenda drank.
  - Are the two ratios you determined equivalent? Explain why or why not.

3) The ratio of Isabella's money to Shane's money is 3:11. If Isabella has \$33, how much money do Shane and Isabella have together? Use diagrams to illustrate your answer.

4) The student-to-faculty ratio at a small college is 17:3. The total number of students and faculty is 740. How many faculty members are there at the college? How many students?

5) The school band is comprised of middle school students and high school students, but it always has the same maximum capacity. Last year the ratio of the number of middle school students to the number of high school students was 1:8. However, this year the ratio of the number of middle school students to the number of high school students changed to 2:7. If there are 18 middle school students in the band this year, how many fewer high school students are in the band this year compared to last year? Explain.

6) Maritza is baking cookies to bring to school and share with her friends on her birthday. The recipe requires 3 eggs for every 2 cups of sugar. To have enough cookies for all of her friends, Maritza determined she would need 12 eggs. If her mom bought 6 cups of sugar, does Maritza have enough sugar to make the cookies? Why or why not?

7) Use the value of the ratio to determine which ratios are equivalent to 7:15.

- a. 21:45
- b. 14:45
- c. 3:5
- d. 63:135

8) Complete the table so that it shows Max has a texting rate of 55 words per minute.

Minutes				
Words				

9) Ryan made a table to show how much blue and red paint he mixed to get the shade of purple he will use to paint the room. He wants to use the table to make larger and smaller batches of purple paint.

Blue	Red
12	3
20	5
28	7
36	9

- a. What ratio was used to create this table? Support your answer.
- b. How are the values in each row related to each other?
- c. How are the values in each column related to each other?

10) Sarah and Eva were swimming.

a. Use the ratio tables below to determine who the faster swimmer is.

Sarah

Time (min)	3	5	12	17
Distance (meters)	75	125	300	425

Eva

Time (min)	2	7	10	20
Distance (meters)	52	182	260	520

b. Explain the method that you used to determine your answer.

11) Frank has been driving at a constant speed for 3 hours, during which time he traveled 195 miles. Frank would like to know how long it will take him to complete the remaining 455 miles, assuming he maintains the same constant speed. Help Frank determine how long the remainder of the trip will take. Include a table or diagram to support your answer.

12) Potatoes are on sale at both Grocery Mart and Baldwin Hills Market. At Grocery Mart, a 5 lb. bag of potatoes cost \$2.85, and at Baldwin Hills Market a 7 lb. bag of potatoes costs \$4.20. Which store offers the best deal on potatoes? How do you know? How much better is the deal?

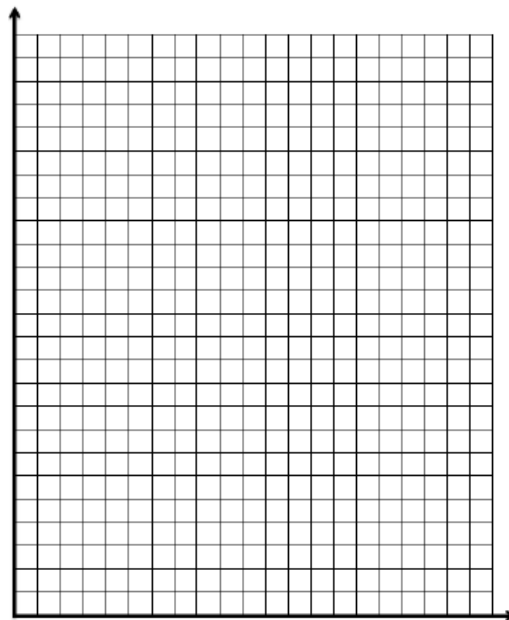
13) A cookie recipe calls for 1 cup of white sugar and 3 cups of brown sugar. Make a table showing the comparison of the amount of white sugar to the amount of brown sugar.

White Sugar ( <i>W</i> )	Brown Sugar ( <i>B</i> )

- Write the value of the ratio of the amount of white sugar to the amount of brown sugar.
- Write an equation that shows the relationship of the amount of white sugar to the amount of brown sugar.
- Explain how the value of the ratio can be seen in the table.
- Explain how the value of the ratio can be seen in the equation.

14) Complete the table of values to find the following:  
Find the number of cups of sugar needed if for each pie Karrie makes, she has to use 3 cups of sugar.

Pies	Cups of Sugar
1	
2	
3	
4	
5	
6	



Use a graph to represent the relationship.

15) The Piney Creek Swim Club is preparing for the opening day of the summer season. The pool holds 22,410 gallons of water, and water is being pumped in at 540 gallons per hour. The swim club has its first practice in 42 hours. Will the pool be full in time? Explain your answer.

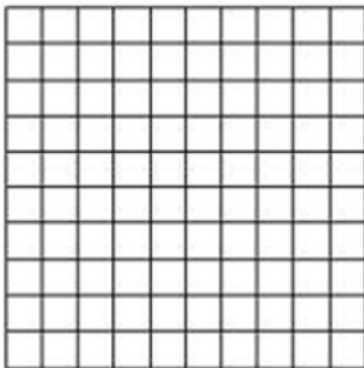
16) Convert the following:

- a. 7 ft. = \_\_\_\_\_ in.
- b. 100 yd. = \_\_\_\_\_ ft.
- c. 25 m = \_\_\_\_\_ cm
- d. 5 km = \_\_\_\_\_ m
- e. 96 oz. = \_\_\_\_\_ lb.
- f. 2 mi. = \_\_\_\_\_ ft.
- g. 2 mi. = \_\_\_\_\_ yd.
- h. 32 fl.oz. = \_\_\_\_\_ c.
- i. 1,500 mL = \_\_\_\_\_ L
- j. 6 g = \_\_\_\_\_ mg

17) A world-class marathon runner can finish 26.2 miles in 2 hours. What is the rate of speed for the runner?

18) One math student, John, can solve 6 math problems in 20 minutes while another student, Juaquine, can solve the same 6 math problems at a rate of 1 problem per 4 minutes. Who works faster?

19) Marissa just bought 100 acres of land. She wants to grow apple, peach, and cherry trees on her land. Color the model to show how the acres could be distributed for each type of tree. Using your model, complete the table.



Tree	Percentage	Fraction	Decimal
Apple			
Peach			
Cherry			

20) What is 15% of 60? Create a model to prove your answer.

21) If 40% of a number is 56, what was the original number?

22) The Sparkling House Cleaning Company has cleaned 28 houses this week. If this number represents 40% of the total number of houses the company is contracted to clean, how many total houses will the company clean by the end of the week?

23) Marissa got an 85% on her math quiz. She had 34 questions correct. How many questions were on the quiz?

24) What is the width of a rectangle with an area of  $\frac{5}{8} \text{ in}^2$  and a length of 10 inches?

25) 12 gallons of water fill a tank to  $\frac{3}{4}$  capacity.

- What is the capacity of the tank?
- If the tank is then filled to capacity, how many half-gallon bottles can be filled with the water in the tank?

26) For the following exercises, rewrite the division expression in unit form. Then, find the quotient. Draw a model to support your answer.

$$\frac{4}{5} \div \frac{1}{5}$$

$$\frac{8}{5} \div \frac{3}{5}$$

$$\frac{9}{4} \div \frac{6}{5}$$

27) Calculate the quotient.

$$4\frac{1}{3} \div \frac{4}{7}$$

28) Krego earns \$2,456.75 every month. He also earns an extra \$4.75 every time he sells a new gym membership. Last month, Krego sold 32 new gym memberships. How much money did Krego earn last month?

<p>29) Divide using the division algorithm.  <math>1,823,535 \div 245</math></p>	<p>30) Without solving, tell whether each sum or product is even or odd. Explain your reasoning.</p> <p>a. <math>346 + 721</math></p> <p>b. <math>425,922 + 32,481,064</math></p>
<p>31) Find the LCM of 24 and 48</p>	<p>32) Use Euclid's algorithm to find the greatest common factor of the following pairs of numbers:  GCF (12,78)</p>
<p>33) Draw a number line, and create a scale for the number line in order to plot the points <math>-2</math>, <math>4</math>, and <math>6</math>.</p> <p>a. Graph each point and its opposite on the number line.  b. Explain how you found the opposite of each point.</p>	<p>34) Express each situation as an integer in the space provided.</p> <p>a. A gain of 56 points in a game _____</p> <p>b. A fee charged of \$2 _____</p> <p>c. A temperature of 32 degrees below zero _____</p> <p>d. A 56-yard loss in a football game _____</p> <p>e. The freezing point of water in degrees Celsius _____</p> <p>f. A \$12,500 deposit _____</p>
<p>35) Find the opposite of each number, and describe its location on the number line.</p> <p>a. <math>-5</math>  b. <math>10</math>  c. <math>-3</math>  d. <math>15</math></p>	<p>36) On a number line, locate and label <math>40^{\circ}\text{C}</math> below zero and <math>40^{\circ}\text{C}</math> above zero. What does zero represent in this situation?</p> 