

All Saints Academy
Summer Work
2026-2027
Grade 6

Welcome to 6th Grade!

Students entering Grade 6 are required to read two books. One is the book *Holes* by Louis Sachar and the other is a book is *City of Embers* by Jeanne DuPrau. In addition to reading, students will need to complete an assignment for each book

Assignment:

- Students are required to fill in the provided graphic organizer for each book they read. Upon returning to school, they will pass in the two graphic organizers with information from the two books. If students run out of room, they may attach another piece of paper to their graphic organizer.
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Your completed packet must be returned on the first day of school and will be a quiz grade. It is important to do your best work and return the packet to school on time.

Summer Reading Graphic Organizer

Name:

Date:

Book Information:

Title:

Author's Name:

Copyright Date:

Publishing Company:

Setting: Explain in detail where and when the book takes place. If the book has more than one setting, explain the first setting described in the book.

Main Characters: Please list the main characters and give a brief description of them.

Main Characters	Description
1.	
2.	
3.	
4.	
5.	
6.	
7.	

Theme: What is the theme of the story? Theme is the central idea or message of a story.

Overall Feelings:

Give one positive comment about the book and explain why you feel this way:

Give one constructive comment about the book and explain how you would change it to make it better:

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Multiplication

Find the product of the two numbers in each problem. Show all work.

Example:

$$\begin{array}{r} 54 \\ \times 16 \\ \hline 324 \\ + 540 \\ \hline 864 \end{array}$$

1.

$$\begin{array}{r} 65 \\ \times 4 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 42 \\ \times 8 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 84 \\ \times 39 \\ \hline \end{array}$$

Decimal Multiplication:

Multiply as you would with whole numbers. Count the decimal places in each factor. The product (answer) has the same number of decimal places.

4.

$$\begin{array}{r} .13 \\ \times 70 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 5.1 \\ \times 2 \\ \hline \end{array}$$

6.

$$\begin{array}{r} .108 \\ \times 2.5 \\ \hline \end{array}$$

Division

Find the quotient in each problem. If there is a remainder, state the remainders as R=____. Show all work. Feel free to use a separate sheet of paper.

7.

$$7 \overline{)591}$$

8.

$$12 \overline{)264}$$

9.

$$43 \overline{)2815}$$

Decimal Division:

If the divisor (outside number) is a decimal, you must move the decimal point (using multiplication) to the right until it becomes a whole number. Then, move the decimal in the dividend (inside number) the same number of times. Divide to find your answer (quotient).

Then, move the decimal straight up from the dividend to the quotient.

Remember, no remainders.

$$\begin{array}{r} \text{quotient} \\ \text{divisor} \overline{) \text{dividend}} \end{array}$$

10.

$$3 \overline{) 31.8}$$

11.

$$.5 \overline{) 7.45}$$

12.

$$.12 \overline{) 12.24}$$

Rounding

Underline the given place value. Look to the right. If this digit is 5 or greater, increase the underlined digit by 1. If the digit to the right is less than 5, keep the underlined digit the same.

Round to the nearest...

hundredth

0.547 0.55

Round to the nearest....

13.

tenth

0.3479

14.

hundredth

0.7553

15.

whole number

3.268

16.

ten

162.21

17.

thousandth

0.0036

18.

hundred

990.54

Compare using <, >, or =

1.2 1.20 1.2 = 1.20

Compare the decimals.

19.

0.205 0.21

20.

1.03 0.03

21.

0.04 0.050

22.

0.1 0.1000

23.

0.52 0.500

24.

0.41 0.405

Prime Number: A whole number greater than 1 that has only two factors, 1 and itself.
Examples: 2, 3, 5, 7, 11, 13, 17, and 19 are all prime numbers.

Composite Number: A whole number greater than 1 that has more than two factors.
Example: 8 is a composite number since its factors are 1, 2, 4, 8.

Determine if the following numbers are prime or composite. If the numbers are composite, please list all of the factors.

25. 27: _____

26. 39: _____

27. 43: _____

28. 49: _____

Exponents

A way to show repeated multiplication by the same factor is to use an exponent. In this example: $2^3 = 2 \times 2 \times 2 = 8$. The small raised three is the exponent. It tells how many times the number 2, called the base, is multiplied by itself.

Solve the following expressions by writing the expanded notation (repeated multiplication) and find the value.

29. 6^2

30. 2^6

31. 3^4

32. eight squared

33. five cubed

Greatest Common Factor

The greatest factor that two or more numbers have in common (GCF).

1. List all the factors of **four** in order.
2. List all the factors of **twenty** in order.
3. List the common factors.
4. Write the greatest common factor.

Finding common factors:

4: 1, 2, 4

20: 1, 2, 4, 5, 10, 20

Common Factors: 1, 2, 4

GCF = 4

List all the factors for each number. Circle the common factors.

34. 18: _____

30: _____

Common Factors: _____

Greatest Common Factor: _____

35. 60: _____

45: _____

Common Factors: _____

Greatest Common Factor: _____

36. 23: _____

29: _____

Common Factors: _____

Greatest Common Factor: _____

37. 56: _____

72: _____

Common Factors: _____

Greatest Common Factor: _____

Least Common Multiple

The smallest nonzero multiple that two or more numbers have in common.

1. List the multiples of each number until you reach a common multiple in the two numbers.
2. Write the least common multiple.

Finding Common Multiples:

4: 4, 8, 12, 16, 20, 24

6: 6, 12, 18, 24, 30, 36

38. 8: _____

12: _____

Least Common Multiple: _____

39. 7: _____

11: _____

Least Common Multiple: _____

40. 25: _____

10: _____

Least Common Multiple: _____

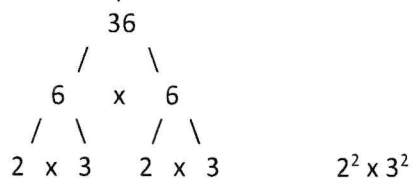
41. 24: _____

36: _____

Least Common Multiple: _____

Prime Factorization is a composite number renamed as a product of prime numbers. You may make a factor tree to find the answer. Put final answer in exponent form.

Find the prime factorization of 36.



42.

180

43.

525

44.

91

45.

48

Comparing Fractions

Compare each pair of numbers. Write the correct comparison symbol ($<$, $>$, $=$) in each circle. Make sure you have common denominators before comparing numerators.

Example:

$$\begin{array}{ccc}
 \frac{1}{3} & \bigcirc & \frac{3}{4} \\
 \downarrow & & \downarrow \\
 \frac{4}{12} & & \frac{9}{12}
 \end{array}$$

46.

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

47.

$$\frac{3}{4} \bigcirc \frac{3}{8}$$

48.

$$\frac{1}{2} \bigcirc \frac{4}{8}$$

49.

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

50.

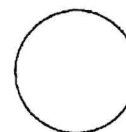
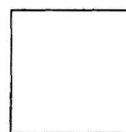
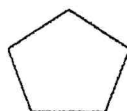
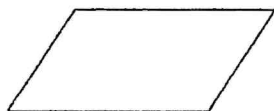
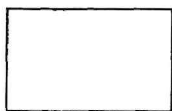
$$\frac{3}{5} \bigcirc \frac{5}{6}$$

51.

$$\frac{7}{8} \bigcirc \frac{3}{4}$$

Geometry-Who am I?

Use the following shapes to answer the questions below.



52. I am a 2 dimensional shape that has four sides. I have four 90 degree angles. I have two sets of parallel lines. I also have two sides that are one length, and my other two sides are a different length.

Who am I? _____

53. I am a 2 dimensional shape that has three acute angles. All of my sides are the same length. I have no parallel sides.

Who am I? _____

54. I am a 2 dimensional shape that has four sides. I have two obtuse angles and two acute angles. I have two different sets of parallel sides. I also have two sides that are one length, and my other two sides are a different length.

Who am I? _____

55. I am a 2 dimensional shape that has 5 obtuse angles. I do not have any sides that are parallel.

Who am I? _____

56. I am a 2 dimensional shape that has four 90 degree angles. I have four sides that are all the same length. I have two different sets of parallel lines.

Who am I? _____

57. I am a 2 dimensional shape. My perimeter is also known as a circumference.

Who am I? _____

Simply Fractions

Simplify the following fractions. If the fractions are improper, change them to mixed numbers then simplify.

Example: $\frac{10}{25} \div 5 = \frac{2}{5}$

58.

$$\frac{14}{28}$$

59.

$$\frac{15}{55}$$

60.

$$\frac{12}{51}$$

61.

$$\frac{34}{48}$$

62.

$$\frac{17}{4}$$

63.

$$\frac{80}{25}$$

Adding Fractions and Mixed Numbers

Add the following fractions. Make sure you have common denominators before adding. Remember, you only add the numerator (top number) and you keep the denominator (bottom number) the same! Simplify your final answers.

Example:

$$\begin{array}{r} \frac{1}{3} + \frac{1}{5} = \\ \downarrow \quad \downarrow \\ \frac{5}{15} + \frac{3}{15} = \frac{8}{15} \end{array}$$

64.

$$\frac{6}{10} + \frac{3}{10} =$$

65.

$$2\frac{3}{8} + 1\frac{2}{8} =$$

66.

$$\frac{1}{9} + \frac{5}{6} =$$

67.

$$\frac{1}{12} + 1\frac{2}{3} =$$

Subtracting Fractions

Subtract the following fractions. Make sure you have common denominators before subtracting. Remember, you only subtract the numerator (top number) and you keep the denominator (bottom number) the same! Simplify your final answers.

Example:

$$\begin{array}{r} \frac{5}{6} - \frac{1}{3} = \\ \downarrow \quad \downarrow \\ \frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2} \end{array}$$

68.

$$\frac{5}{6} - \frac{3}{6} =$$

69.

$$2\frac{8}{12} - 1\frac{3}{12} =$$

70.

$$\frac{7}{10} - \frac{2}{4} =$$

71.

$$3\frac{4}{5} - \frac{1}{4} =$$

Multiplying Fractions

Multiply the following fractions. Multiply the numerators; then multiply the denominators. Simplify, if necessary.

Example:

$$\frac{3}{5} \times \frac{5}{9} = \frac{15}{45} = \frac{1}{3}$$

72.

$$\frac{3}{4} \times \frac{1}{3} =$$

73.

$$\frac{2}{3} \times \frac{5}{8} =$$

74.

$$\frac{1}{3} \times \frac{2}{5} =$$

75.

$$\frac{7}{8} \times 2 =$$

Ordering Fractions

Order the following fractions from least to greatest.

Write answers in ORIGINAL format.

76.

$$\frac{3}{8} \quad \frac{5}{8} \quad \frac{4}{8} \quad \frac{2}{8} \quad \frac{7}{8}$$

77.

$$\frac{1}{5} \quad \frac{4}{5} \quad \frac{1}{10} \quad \frac{6}{10} \quad \frac{7}{10}$$

78.

$$\frac{1}{2} \quad \frac{1}{4} \quad \frac{1}{6} \quad \frac{1}{3} \quad \frac{1}{5}$$

79.

$$\frac{1}{2} \quad \frac{5}{16} \quad \frac{30}{64} \quad \frac{3}{8} \quad \frac{9}{32}$$