ALL SAINTS CATHOLIC SCHOOL

ALL SAINTS
CATHOLIC SCHOOL
Growing Leaders in Mind, Body, and Spirit

Going into
Seventh Grade
Summer Coursework 2022
Math Skills

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Name : _____

Decimal Addition

Mixed: L2S1

Line up the decimals in vertical form and add.

1) 1.84 + 273.79

2) 54.631 + 987.205

3) 2.967 + 52.8

4) 30.72 + 9.6

5) 97.1 + 605.382

6) 491.52 + 4.07

7) 89 + 40.35

8) 761.986 + 25.8

Name : _____

Decimal Subtraction

Mixed: L1S1

Line up the decimals in vertical form and subtract.

1) 3.61 – 0.64

2) 54.9 – 12.75

3) 80.13 – 6.7

4) 910.56 – 13.04

5) 228.1 – 7.29

6) 72.2 – 53.6

7) 195.9 – 3.5

8) 498.07 – 264.1

Name : _____

Adding Like Fractions

All fractions: S1

1) $\frac{13}{10} + \frac{7}{10} =$

2) $\frac{24}{18} + \frac{30}{18} =$

3) $5\frac{1}{3} + \frac{1}{3} =$

4) $6\frac{2}{9} + 6\frac{3}{9} =$

5) $\frac{2}{13} + \frac{3}{13} =$

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

7) $6\frac{4}{7} + 2\frac{3}{7} =$

8) $\frac{20}{19} + \frac{15}{19} =$

9) $\frac{7}{11} + \frac{5}{11} =$

10) $\frac{2}{5} + 9\frac{2}{5} =$

11) $3\frac{1}{8} + \frac{9}{8} =$

12) $2\frac{11}{20} + 4\frac{8}{20} =$

13) $\frac{19}{16} + \frac{29}{16} =$

14) $\frac{1}{4} + \frac{3}{4} =$

Name : _____

Adding Unit Fractions

Proper: S1

1) $\frac{1}{14} + \frac{1}{14} =$ ☐

2) $\frac{1}{3} + \frac{1}{7} =$ ☐

3) $\frac{1}{2} + \frac{1}{3} =$ ☐

4) $\frac{1}{15} + \frac{1}{6} =$ ☐

5) $\frac{1}{5} + \frac{1}{11} =$ ☐

6) $\frac{1}{6} + \frac{1}{6} =$ ☐

7) $\frac{1}{10} + \frac{1}{15} =$ ☐

8) $\frac{1}{16} + \frac{1}{8} =$ ☐

9) $\frac{1}{9} + \frac{1}{9} =$ ☐

10) $\frac{1}{12} + \frac{1}{4} =$ ☐

11) $\frac{1}{15} + \frac{1}{30} =$ ☐

12) $\frac{1}{5} + \frac{1}{20} =$ ☐

13) $\frac{1}{8} + \frac{1}{24} =$ ☐

14) $\frac{1}{13} + \frac{1}{3} =$ ☐

Name : _____

Adding Unit Fractions

Mixed numbers: S1

1) $5\frac{1}{2} + 3\frac{1}{13} =$ ☐

2) $2\frac{1}{4} + 9\frac{1}{4} =$ ☐

3) $4\frac{1}{6} + 9\frac{1}{3} =$ ☐

4) $8\frac{1}{12} + 7\frac{1}{24} =$ ☐

5) $7\frac{1}{3} + 2\frac{1}{19} =$ ☐

6) $5\frac{1}{5} + 3\frac{1}{4} =$ ☐

7) $2\frac{1}{5} + 4\frac{1}{15} =$ ☐

8) $9\frac{1}{3} + 8\frac{1}{3} =$ ☐

9) $6\frac{1}{18} + 5\frac{1}{6} =$ ☐

10) $3\frac{1}{4} + 6\frac{1}{20} =$ ☐

11) $3\frac{1}{9} + 4\frac{1}{9} =$ ☐

12) $4\frac{1}{8} + 2\frac{1}{16} =$ ☐

13) $2\frac{1}{15} + 5\frac{1}{10} =$ ☐

14) $6\frac{1}{10} + 7\frac{1}{10} =$ ☐

Name : _____

Adding Improper Fractions

MS1

1) $\frac{26}{20} + \frac{44}{20} =$ ☐

2) $\frac{7}{3} + \frac{9}{3} =$ ☐

3) $\frac{58}{9} + \frac{10}{9} =$ ☐

4) $\frac{52}{16} + \frac{20}{16} =$ ☐

5) $\frac{73}{4} + \frac{24}{4} =$ ☐

6) $\frac{19}{13} + \frac{30}{13} =$ ☐

7) $\frac{37}{17} + \frac{18}{17} =$ ☐

8) $\frac{41}{8} + \frac{15}{8} =$ ☐

9) $\frac{42}{12} + \frac{42}{12} =$ ☐

10) $\frac{6}{5} + \frac{8}{5} =$ ☐

11) $\frac{14}{2} + \frac{21}{2} =$ ☐

12) $\frac{20}{10} + \frac{30}{10} =$ ☐

13) $\frac{16}{15} + \frac{19}{15} =$ ☐

14) $\frac{52}{6} + \frac{7}{6} =$ ☐

Name : _____

Adding Unlike Fractions

All fractions: S1

1) $1\frac{2}{5} + 7\frac{6}{20} =$

2) $\frac{9}{14} + \frac{3}{7} =$

3) $\frac{17}{16} + \frac{9}{8} =$

4) $5\frac{5}{6} + \frac{8}{12} =$

5) $\frac{13}{9} + 4\frac{2}{3} =$

6) $\frac{4}{6} + \frac{11}{2} =$

7) $2\frac{2}{10} + \frac{1}{2} =$

8) $\frac{2}{3} + \frac{13}{18} =$

9) $5\frac{6}{9} + 2\frac{2}{6} =$

10) $\frac{19}{14} + 1\frac{5}{7} =$

11) $\frac{4}{15} + \frac{17}{10} =$

12) $\frac{1}{2} + \frac{9}{18} =$

13) $9\frac{3}{5} + \frac{2}{3} =$

14) $1\frac{2}{12} + 1\frac{1}{4} =$

Name : _____

Subtracting Unit Fractions

Proper: S1

1) $\frac{1}{4} - \frac{1}{36} =$ ☐

2) $\frac{1}{3} - \frac{1}{18} =$ ☐

3) $\frac{1}{12} - \frac{1}{16} =$ ☐

4) $\frac{1}{9} - \frac{1}{15} =$ ☐

5) $\frac{1}{15} - \frac{1}{20} =$ ☐

6) $\frac{1}{10} - \frac{1}{14} =$ ☐

7) $\frac{1}{2} - \frac{1}{13} =$ ☐

8) $\frac{1}{4} - \frac{1}{12} =$ ☐

9) $\frac{1}{8} - \frac{1}{11} =$ ☐

10) $\frac{1}{5} - \frac{1}{30} =$ ☐

11) $\frac{1}{3} - \frac{1}{21} =$ ☐

12) $\frac{1}{16} - \frac{1}{20} =$ ☐

13) $\frac{1}{12} - \frac{1}{18} =$ ☐

14) $\frac{1}{8} - \frac{1}{22} =$ ☐

Name : _____

Subtracting Fractions

Mixed Review: S1

1) $\frac{6}{7} - \frac{4}{5} =$

2) $5\frac{3}{10} - 3\frac{7}{10} =$

3) $\frac{4}{14} - \frac{3}{14} =$

4) $1\frac{2}{6} - \frac{3}{6} =$

5) $\frac{11}{2} - \frac{7}{2} =$

6) $9\frac{4}{7} - \frac{10}{7} =$

7) $9\frac{5}{8} - 6\frac{7}{8} =$

8) $5\frac{3}{4} - 4\frac{1}{3} =$

9) $\frac{1}{3} - \frac{1}{7} =$

10) $\frac{13}{11} - \frac{10}{11} =$

11) $\frac{15}{12} - \frac{13}{12} =$

12) $\frac{11}{4} - 2\frac{1}{2} =$

13) $4\frac{3}{4} - \frac{4}{6} =$

14) $\frac{7}{3} - \frac{6}{9} =$

Name : _____

Subtracting Proper Fractions

Moderate: S1

1) $\frac{4}{5} - \frac{2}{4} =$ ☐

2) $\frac{7}{8} - \frac{8}{10} =$ ☐

3) $\frac{8}{11} - \frac{6}{9} =$ ☐

4) $\frac{15}{17} - \frac{1}{2} =$ ☐

5) $\frac{2}{3} - \frac{3}{6} =$ ☐

6) $\frac{4}{7} - \frac{1}{3} =$ ☐

7) $\frac{11}{12} - \frac{7}{9} =$ ☐

8) $\frac{8}{10} - \frac{4}{18} =$ ☐

9) $\frac{6}{8} - \frac{1}{2} =$ ☐

10) $\frac{12}{15} - \frac{2}{5} =$ ☐

11) $\frac{10}{14} - \frac{5}{12} =$ ☐

12) $\frac{3}{4} - \frac{7}{16} =$ ☐

13) $\frac{4}{5} - \frac{11}{20} =$ ☐

14) $\frac{16}{18} - \frac{2}{3} =$ ☐

Name: _____

Multiplying Two Fractions

Sheet 1

Find the product.

1) $\frac{9}{2} \times \frac{2}{3}$

_____

2) $\frac{15}{7} \times \frac{6}{12}$

_____

3) $\frac{8}{14} \times \frac{7}{6}$

_____

4) $\frac{1}{5} \times \frac{19}{11}$

_____

5) $\frac{5}{18} \times \frac{4}{9}$

_____

6) $\frac{11}{6} \times \frac{7}{5}$

_____

7) $\frac{6}{7} \times \frac{13}{7}$

_____

8) $\frac{14}{15} \times \frac{3}{20}$

_____

Name: _____

Multiplying Two Mixed Numbers

Find the product.

1) $3\frac{2}{11} \times 6\frac{3}{5}$

2) $5\frac{2}{4} \times 3\frac{1}{2}$

3) $6\frac{2}{5} \times 2\frac{5}{8}$

4) $1\frac{5}{9} \times 2\frac{3}{12}$

5) $4\frac{4}{5} \times 1\frac{9}{11}$

6) $3\frac{4}{7} \times 1\frac{2}{5}$

7) $2\frac{6}{8} \times 3\frac{3}{7}$

8) $2\frac{1}{10} \times 1\frac{2}{7}$

Name: _____

Multiplying Mixed Numbers and Fractions

Sheet 2

Find the product.

1) $5\frac{3}{5} \times \frac{7}{4}$

_____

2) $\frac{1}{16} \times 1\frac{7}{9}$

_____

3) $\frac{11}{24} \times 2\frac{6}{11}$

_____

4) $\frac{9}{7} \times 4\frac{2}{3}$

_____

5) $2\frac{7}{16} \times \frac{14}{13}$

_____

6) $4\frac{4}{5} \times \frac{10}{16}$

_____

7) $\frac{5}{19} \times 2\frac{8}{15}$

_____

8) $3\frac{3}{13} \times \frac{8}{7}$

_____

Name: _____

Dividing Fractions

Sheet 1

Find the quotient.

1) $\frac{6}{7} \div \frac{2}{7}$

2) $\frac{1}{4} \div \frac{19}{12}$

3) $\frac{2}{5} \div \frac{7}{9}$

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

5) $\frac{3}{4} \div \frac{9}{8}$

6) $\frac{12}{18} \div \frac{17}{9}$

7) $\frac{11}{10} \div \frac{5}{2}$

8) $\frac{15}{17} \div \frac{5}{3}$

Name: _____

Dividing Mixed Numbers

Sheet 1

Find the quotient.

1) $6\frac{6}{9} \div 1\frac{5}{7}$

2) $5\frac{5}{6} \div 7\frac{1}{6}$

3) $7\frac{4}{5} \div 8\frac{1}{8}$

4) $6\frac{1}{3} \div 1\frac{1}{18}$

5) $8\frac{3}{10} \div 4\frac{3}{20}$

6) $9\frac{3}{4} \div 5\frac{2}{5}$

7) $3\frac{7}{12} \div 4\frac{1}{2}$

8) $2\frac{6}{14} \div 2\frac{3}{7}$

Name : _____ Score : _____

Circle the numbers

Sheet 1

Circle the possible values that satisfy each inequality.

1. $x > 7$

   2 6 8 5

2. $x \leq 10$

   7 16 4 10

3. $x < 4$

   3 1 6 9

4. $x \geq 13$

   5 14 9 17

5. $3 > x$

   5 6 8 1

6. $x \leq 8$

   8 9 10 7

7. $17 \geq x$

   20 9 12 19

8. $x < 15$

   14 18 16 17

9. $x > 2$

   0 6 4 5

10. $x \leq 5$

    5 7 8 2

11. $11 > x$

    11 6 10 9

12. $x \geq 6$

    5 2 6 4

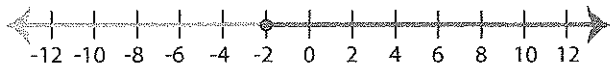
Name : _____ Score : _____

Identifying Inequalities

Sheet 1

Choose the correct solution that best describes each graph.

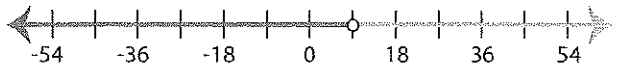
1)



a) $x < -2$ b) $x \geq -2$

c) $x \leq -2$ d) $x > -2$

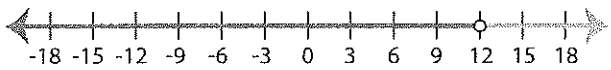
2)



a) $x < 9$ b) $x > 9$

c) $x \geq 9$ d) $x \leq 9$

3)



a) $x \geq 12$ b) $x \leq 12$

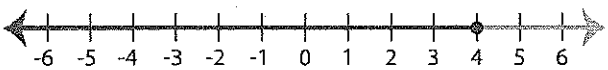
c) $x < 12$ d) $x > 12$

4)

a) $x < -20$ b) $x \geq -20$

c) $x \leq -20$ d) $x > -20$

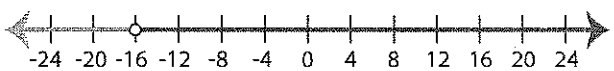
5)



a) $x \leq 4$ b) $x < 4$

c) $x \geq 4$ d) $x > 4$

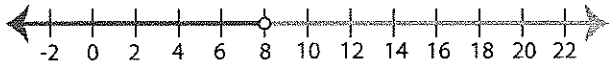
6)



a) $x < -16$ b) $x \leq -16$

c) $x \geq -16$ d) $x > -16$

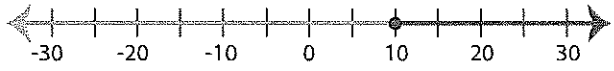
7)



a) $x > 8$ b) $x \geq 8$

c) $x < 8$ d) $x \leq 8$

8)



a) $x < 10$ b) $x \geq 10$

c) $x \leq 10$ d) $x > 10$

Name : _____ Score : _____

Circle the numbers

Sheet 1

Circle the possible values that satisfy each inequality.

1) $2x \geq 8$

1 3 4 6

2) $x - 3 < 9$

16 5 18 10

3) $12 > x + 6$

2 3 6 5

4) $\frac{x}{2} > 9$

2 20 6 8

5) $5x \leq 10$

5 1 2 4

6) $x + 5 > 9$

2 1 7 9

7) $x + 7 \geq 14$

3 11 5 7

8) $\frac{x}{3} < 5$

17 12 6 16

9) $16 > x + 7$

8 10 15 12

10) $5 > \frac{x}{5}$

20 25 5 15

11) $6x \leq 18$

5 4 3 2

12) $20 \geq 2x$

13 10 9 8

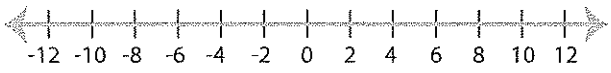
Name : _____ Score : _____

Solving & Graphing Inequalities

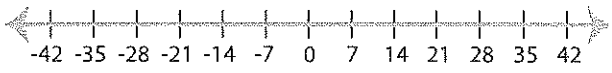
ES1

Solve each inequality and graph the solution.

1) $x - 2 > 4$

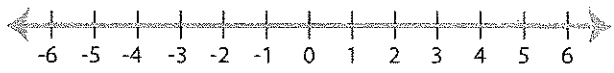


2) $\frac{x}{3} \leq 7$

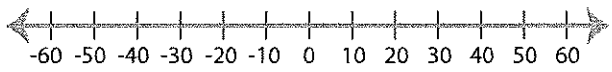


3) $6x < 30$

4) $x + 9 \geq 11$

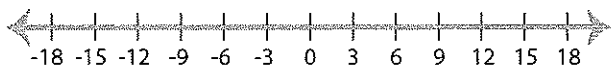


5) $\frac{x}{2} \geq 10$

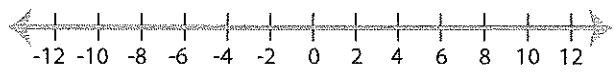


6) $x - 5 \leq 2$

7) $7 + x < 16$



8) $4x \geq 32$



Name : _____

Translating Phrases: One-Step Equations

Sheet 1

Translate each verbal phrase into an algebraic equation.

1) Sum of x and 3 gives 5 _____

2) 2 multiplied by b is equal to 8 _____

3) Difference between y and 23 is 12 _____

4) Product of 4 and z is the same as 16 _____

5) Total of m and 3 is 21 _____

6) b divides 6 gives 1 _____

7) n minus 2 is equal to 16 _____

8) 11 times p is 33 _____

9) 20 exceeds c gives 18 _____

10) One-half of x is equal to 3 _____

Name : _____

One-Step Equations: Integers

Mixed Operations Level 1: S1

Solve each equation.

1) $10 = z + 6$

2) $8y = 48$

3) $q - 12 = 1$

4) $18 = \frac{a}{2}$

5) $\frac{r}{3} = 7$

6) $11 = m - 4$

7) $t - 19 = 2$

8) $1 + s = 3$

9) $24 = 4c$

10) $\frac{v}{5} = 9$