



ST. FRANCIS
DE SALES
CATHOLIC SCHOOL

Summer Math Packet
For
Students entering 7th grade

Please have your student complete this packet and return it the first day of school next fall.

- The packet must be hole-punched and put into a 3-clasped folder.
- The student name must be written on the front of the folder.
- ALL WORK MUST BE SHOWN FOR FULL CREDIT. (Extra paper may be used for work.)
- Packets are due on September 5. (Each day the packet is late will result in a 10% deduction from the grade.)
- The packet will be graded and will count as a quiz grade.
- No packets will be accepted after Friday, September 8.

Find the mean, median, mode and range of the data sets:

1. 31, 20, 31, 51, 27

Mean:

Median:

Mode:

Range:

2. 20, 5, 45, 90, 60, 45, 30, 10, 30, 45, 15, 25

Mean:

Median:

Mode:

Range:

Section III

Name: _____

Solve each equation for x .

1) $x + 8 = 15$

2) $x - 1,078 = 4,562$

3) $5.6 + x = 7$

4) $x - 2.16 = 3.9$

5) $78x = 4,368$

6) $x \div 4 = 32$

7) $1.2x = 3$

8) $7.2 = x \div 15$

Simplify each expression:

1. $3^2 + 2^3$

2. $(15 - 1) - 3^2$

3. Find the prime factorization of 28.

4. Find the GCF of 16 and 40.

5. Find the LCM of 10, 20 and 35.

Simplify each fraction.

6. $\frac{5}{20}$

6. $\frac{4}{6}$

7. $\frac{15}{45}$

8. $\frac{72}{90}$

Rewrite each improper fraction as a mixed number.

9. $\frac{13}{3}$

10. $\frac{58}{6}$

Rewrite each mixed number as an improper fraction.

11. $4\frac{2}{3}$

12. $8\frac{1}{5}$

Section V

Name: _____

Find each sum or difference. Write your answer in simplest form.

1. $\frac{4}{5} + \frac{2}{5}$

2. $\frac{11}{13} - \frac{7}{13}$

3. $\frac{9}{20} + \frac{4}{5}$

4. $\frac{3}{4} - \frac{3}{8}$

5. $3\frac{3}{4} - 2\frac{8}{10}$

6. $8\frac{1}{5} + 4\frac{1}{6}$

Solve each equation for x .

7. $x - \frac{4}{5} = \frac{11}{20}$

8. $\frac{6}{9} = \frac{1}{3} + x$

9. $4\frac{3}{4} + x = 17\frac{1}{8}$

10. $13\frac{2}{3} = x - 10\frac{7}{9}$

Multiply. Write your answer in simplest form.

1. $\frac{3}{8} \times 32$

2. $\frac{5}{6} \times \frac{12}{25}$

3. $\frac{7}{9} \times 5\frac{4}{7}$

4. $3\frac{1}{3} \times 2\frac{3}{4}$

Divide. Write your answer in simplest form.

5. $15 \div \frac{9}{11}$

6. $\frac{2}{5} \div \frac{8}{25}$

7. $\frac{5}{7} \div 25$

8. $6\frac{3}{4} \div 4\frac{1}{2}$

Solve each proportion.

1. $\frac{4}{5} = \frac{x}{25}$

2. $\frac{6}{4} = \frac{9}{x}$

3. $\frac{x}{25} = \frac{3}{10}$

Write each percent as a **decimal** AND as a **fraction**.

4. 25%

5. 6%

Find each percent.

6. 2% of 50

7. 80% of 8

8. Suppose you buy a DVD for \$12.98. The sales tax is 7%. Find your total cost.

Section VIII

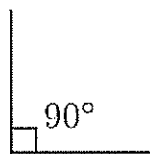
Classify each angle as acute, right, obtuse, or straight.



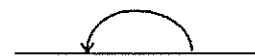
1. _____



2. _____



3. _____



4. _____

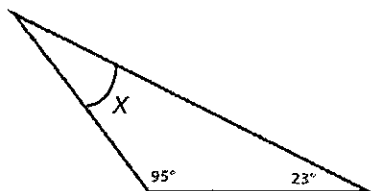
Find the complement and supplement of each angle measure.

5. 72° complement: _____ supplement: _____

Match the type of triangle with its definition.

- | | |
|----------------|--------------------------------------|
| 6. Scalene | a. a triangle with two equal sides |
| 7. Isosceles | b. a triangle with three equal sides |
| 8. Equilateral | c. a triangle with no equal sides |

Find the missing angle measure, x .



9. $x =$ _____

Section IX

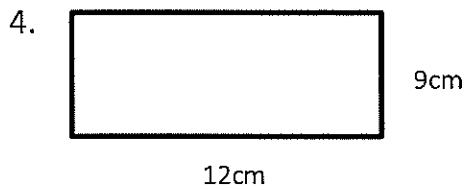
Convert each measurement.

1. 672 mm to cm.

2. 25,040 mL to L.

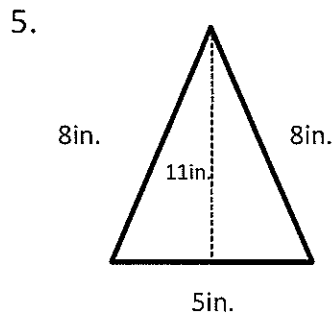
3. 35.1 kg to g.

Find the perimeter and area of each figure.



P = _____

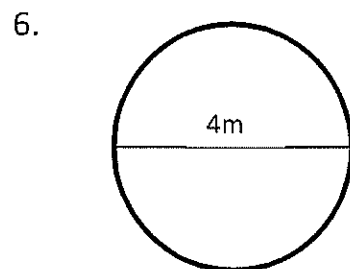
A = _____



P = _____

A = _____

Find the circumference and area of the circle.



C = _____

A = _____