# ST. FRANCIS' HIGH SCHOOL

# MATHEMETICS | SEVEN

## SUMMER VACATION HOMEWORK

**(July & Aug – 2026)**

**Name of Student: _____**

**Roll No: _____ Section: _____**

**……..**

**Grade: _____**

**Teacher's Remarks: _____**

**_____**

**St. Francis' High School, Peshawar.**

**Mathematics Class 7**
**Worksheet No. 1**

**Q1. True or False**

1. Natural numbers include zero.

2. Integers include both positive and negative numbers.

3. Rational numbers do not include fractions.

4. The number 0.4 is a rational number.

5. The square root of 3 is a rational number.

**Q2. Fill in the Blanks**

1. Natural numbers are represented by the set N = {_____}

2. Whole numbers include natural numbers and _____.

3. Integers are represented by the set Z= {_____}

4. Rational numbers are numbers that include _____ and _____.

5. A number is rational if it can be written in the form of p/q where p and q are _____ and q is not equal to _____

**Q3. MCQs.**

1. The number 6 is a rational number because:

a) It is an integer

b) It is positive

c) It can be expressed as 6/1

d) It is divisible by 3

2. Which set does the number -2 belong to?

a) Natural numbers

b) Whole numbers

c) Integers

d) None

Q4 Write down the rational number whose numerator is 15 - 4 and whose denominator is 37 x (-2).

Q5. Express the following rational numbers in standard form:
42 / - 48

**St. Francis' High School, Peshawar.**
**Mathematics Class 7**
**Worksheet No. 2**

**Q1. Fill in the blanks**

1. The value of a number on a number line increases as we move to the ____.

2. A rational number is in standard form if its numerator and denominator have no common divisor other than ____.

3. To make the denominator of 16/-56 positive, we multiply both numerator and denominator by_____.

4. On the number line, any number to the right of another number is ____ than it.

5. The greatest common divisor (GCD) of 16 and 56 is ____.

**Q2. True or False**

1. The product of rational number is a rational number. (___)

2. Standard form always has a positive denominator. (___)

3. On the number line, –1 is greater than 0. (___)

4. 3/5 > 2/5 (___)

5. Every rational number has only one standard form. (___)

**Q3. Write the next three rational numbers to complete the pattern.**

4/-5, 8/-10, 12/-15, 16/-20 , ____ , ____ , ___.

Q4. Find the reciprocals of:

$\frac{-3}{4}$ x $\frac{-5}{-6}$

Q5. Express $\frac{-3}{7}$ as a rational number whose numerator is

i) 6 ii) -15

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**Mathematics Class 7**

**Worksheet No. 3**

**1. Fill in the blanks:**

1. The reciprocal of 5 is ____.

2. The reciprocal of ¾ is ____.

3. Rounding rational numbers is the same as rounding ____ numbers.

4. 1.875 rounded to the nearest hundredth is ____.

5. 5.4375 rounded to the nearest thousandth is ____.

**2. True / False:**

1. The reciprocal of 5/6 is 6/5.

2. When rounding a number, if the next digit is 5 or more, we round down.

3. 1.875 rounded to the nearest tenth is 1.9.

4. 5.4375 rounded to the nearest hundredth is 5.43.

5. 87/16 = 5.4375

**3. Multiple Choice Questions (MCQs):**

1. What is the reciprocal of 5?

a) 1/10 b) 0 c) 1/5 d) 5

2. 1.875 rounded to the nearest thousandth is:

a) 1.87 b) 1.875 c) 1.876 d) 1.88

3. 5.4375 rounded to the nearest tenth is:

a) 5.5 b) 5.43 c) 5.4 d) 5.44

4. The reciprocal of 3/4 is:

a) 3/4 b) 4/3 c) 1 d) 1/3

5. Multiply: $\frac{4}{15}$ by $\frac{3}{8}$

6. Round off the following rational numbers to the nearest tenth, hundredth, and thousandth as possible. $\frac{25}{4}$

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**Mathematics Class 7**
**Worksheet No. 4**

## Worksheet – Geometry.

### Section A: Identify.

a) An angle of 90° is called _____

b) Two angles whose sum is 180° are called _____

c) What do you call an angle greater than 90° but less than 180°? _____

### Section B: Solve

a) If one angle is 40°, find its complement.

b) If one angle is 70°, find its supplement.

c) If two adjacent angles form a straight line and one is 110°, find the other.

### Section C: Classify

Classify the following angles as acute, right, obtuse, or reflex:

a) 45° b) 90° c) 135° d) 270°

Solve the following.

i) Construct ΔABC when, $\overline{m}AB = 8$ $\overline{cm}$, $mBC = 6$ $\overline{cm}$, $mCA = 4$ cm

ii) Represent the following rational numbers on the number line.

i) $\frac{2}{5}$ ii) - 2