# 7 Xavier Summer 2026 Math Packet

Name: _____

Complete the following problem. Show **all your work** and **circle your final answer.** Bring this packet with you on the first day of school.

| **Decimals** | | | |
|---|---|---|---|
| Find the sum, difference, product or quotient. | | | |
| 1) 2.29 + 1.2 = | 2) 4.7 + 1.5 = | 3) 4.4 – 2.9 = | 4) 7.6 – 0.02 = |
| 5) 5.242 – 0.3 = | 6) (5)(3.5) = | 7) (7.2)(2.5) = | 8) (4.3)(0.9) = |
| 9) 8.9 ÷ 7.6 = | 10) 2.3 ÷ 3 = | 11) 0.5 ÷ 3.5 = | |

**Fractions**

Find the sum, difference, product or quotient.

| | | | |
|---|---|---|---|
| 12) $\frac{2}{3}+\frac{4}{3}=$ | 13) $\frac{3}{4}+\frac{2}{5}=$ | 14) $\frac{3}{4}+4\frac{2}{5}=$ | 15) $4\frac{1}{7}+1\frac{1}{2}=$ |
| 16) $\frac{7}{6}-\frac{5}{6}=$ | 17) $\frac{5}{6}-\frac{1}{3}=$ | 18) $2\frac{1}{8}-\frac{1}{2}=$ | 19) $4\frac{1}{4}-3\frac{1}{2}=$ |
| 20) $\frac{2}{3}\cdot\frac{4}{5}=$ | 21) $3\frac{3}{5}\cdot\frac{1}{2}=$ | 22) $7\cdot\frac{2}{5}=$ | 23) $1\frac{1}{3}\cdot5\frac{5}{6}=$ |
| 24) $\frac{7}{8}\div\frac{1}{2}=$ | 25) $\frac{1}{3}\div2=$ | 26) $\frac{3}{2}\div1\frac{1}{7}=$ | 27) $4\frac{1}{6}\div\frac{1}{4}=$ |

## Integers

Find the sum, difference, product or quotient.

| | | |
|---|---|---|
| 28) $4 + (-7) =$ | 29) $-3 + 12 =$ | 30) $-9 + (-11) =$ |
| 31) $-6 - 8 =$ | 32) $12 - (-2) =$ | 33) $-7 - (-10) =$ |
| 34) $(-7)(8) =$ | 35) $(-10)(-5) =$ | 36) $(6)(-3) =$ |
| 37) $-24 \div (-3) =$ | 38) $-54 \div 6 =$ | 39) $56 \div (-8) =$ |

## Order of Operations

| | | |
|---|---|---|
| 39) $4 + 3(6 - 2) =$ | 40) $(8 + 2) \cdot 3^2 =$ | 41) $24 \div (3 \cdot 2) + 1 =$ |

## Expressions

Evaluate the expressions when x = 4 and y = 3. **Show your substitutions.**

42) $2x + 3y$

43) $x^2 - y$

44) $5(x + y)$

## Ratios, Rates, and Proportions

45) Write the ratio of 3 cats to 8 dogs.

46) If 5 notebooks cost $15, what is the cost of one notebook?

47) If $\frac{4}{5} = \frac{x}{10}$, find x?

## Percent Problems

48) What is 25% of 60?

49) 15 is what percent of 75?

50) A $50 shirt is on sale for 20% off. What is the sale price?

## Geometry Basics

51) Find the area and perimeter of a rectangle with length 7 cm and width 5 cm.

52) Find the area of a triangle with base 10 inches and height 4 inches.

Identify the angle type as acute, right or obtuse.

53) 135°

54) 70°

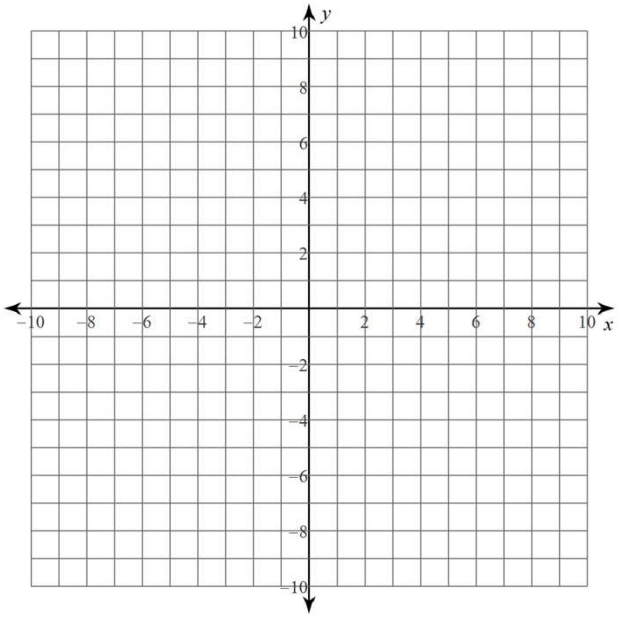
55) 90°

## Coordinate Plane

56) Plot and label the points.

A: (3, -2)  B: (-4, 5)

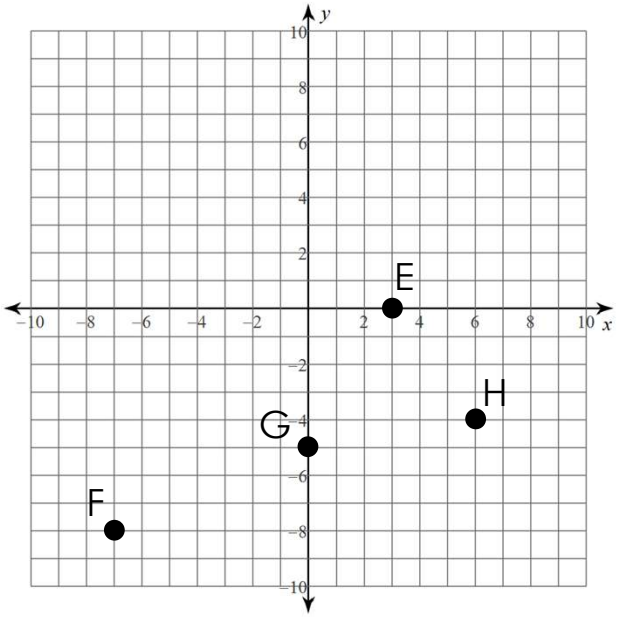
C: (2, 0)  D: (0, 1)




57) State the coordinates.

E: _____ F: _____

G: _____ H: _____




## Word Problems

58) Mary ran 3.5 miles each day for 4 days. How far did she run in total?

59) A class has 18 boys and 12 girls. What is the ratio of boys to girls?

60) A rectangle has a length twice its width. If the width is 6 inches, what is the perimeter?