

7 Xavier Summer Math Packet Answer Key

Name: _____

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

Decimals

Find the sum, difference, or product.

1) $2.29 + 1.2 = 3.49$

2) $4.7 + 1.5 = 6.2$

3) $4.4 - 2.9 = 1.5$

4) $7.6 - 0.02 = 7.58$

5) $5.242 - 0.3 = 4.942$

6) $(5)(3.5) = 17.5$

7) $(7.2)(2.5) = 18$

8) $(4.3)(0.9) = 3.87$

Find the difference. Round your answer to the nearest tenth.

9) $8.9 \div 7.6 = 1.2$

10) $2.3 \div 3 = 0.8$

11) $0.5 \div 3.5 = 0.1$

Fractions

Find the sum, difference, product or quotient.

$$12) \frac{2}{3} + \frac{4}{3} = 2$$

$$13) \frac{3}{8} + \frac{1}{6} = \frac{13}{24}$$

$$14) \frac{3}{4} + 4\frac{2}{5} = 5\frac{3}{20}$$

$$15) 4\frac{1}{7} + 1\frac{1}{2} = 5\frac{9}{14}$$

$$16) \frac{7}{6} - \frac{5}{6} = \frac{1}{3}$$

$$17) \frac{5}{6} - \frac{1}{3} = \frac{1}{2}$$

$$18) 2\frac{1}{8} - \frac{1}{2} = 1\frac{5}{8}$$

$$19) 4\frac{1}{4} - 3\frac{1}{2} = \frac{3}{4}$$

$$20) \frac{2}{3} \cdot \frac{4}{5} = \frac{8}{15}$$

$$21) 3\frac{3}{5} \cdot \frac{1}{2} = 1\frac{4}{5}$$

$$22) 7 \cdot \frac{2}{5} = 2\frac{4}{5}$$

$$23) 1\frac{1}{3} \cdot 5\frac{5}{6} = 7\frac{7}{9}$$

$$24) \frac{7}{8} \div \frac{1}{2} = 1\frac{3}{4}$$

$$25) \frac{1}{3} \div 2 = \frac{1}{6}$$

$$26) \frac{3}{2} \div 1\frac{1}{7} = 1\frac{5}{16}$$

$$27) 4\frac{1}{6} \div \frac{1}{4} = 16\frac{2}{3}$$

Integers

Find the sum, difference, product or quotient.

28) $4 + (-7) = -3$

29) $-3 + 12 = 9$

30) $-9 + (-11) = -20$

31) $-6 - 8 = -14$

32) $12 - (-2) = 14$

33) $-7 - (-10) = 3$

34) $(-7)(8) = -56$

35) $(-10)(-5) = 50$

36) $(6)(-3) = -18$

37) $-24 \div (-3) = 8$

38) $-54 \div 6 = -9$

39) $56 \div (-8) = -7$

Order of Operations

39) $4 + 3(6 - 2) = 16$

40) $(8 + 2) \cdot 3^2 = 90$

41) $24 \div (3 \cdot 2) + 1 = 5$

Expressions

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

42) $2x + 3y$ **17**

43) $x^2 - y$ **13**

44) $5(x + y)$ **35**

Ratios, Rates, and Proportions

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

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

$x = 8$

46) If 5 notebooks cost \$15, what is the cost of one notebook? **\$3**

Percent Problems

48) What is 25% of 60? **15**

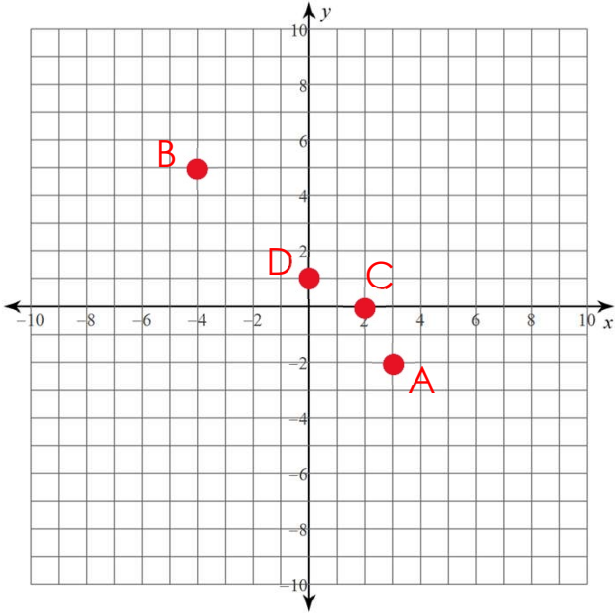
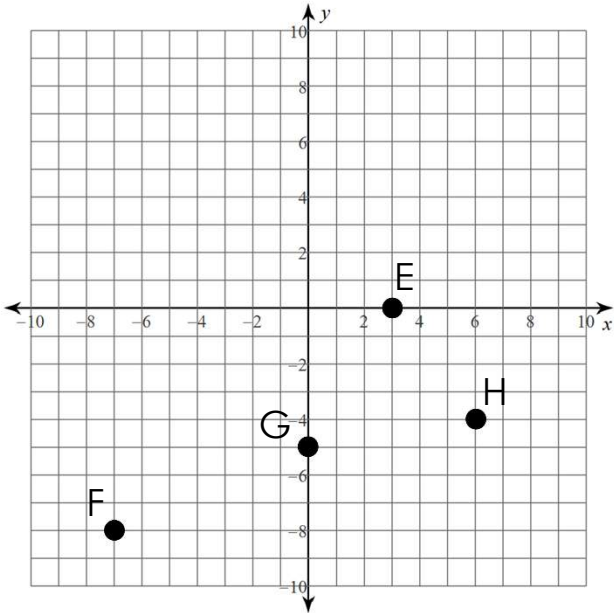
49) 15 is what percent of 75?
20%

50) A \$50 shirt is on sale for 20% off. What is the sale price? **\$40**

Geometry Basics

51) Find the area and perimeter of a rectangle with length 7 cm and width 5 cm. area = 35 cm ² perimeter = 24 cm		52) Find the area of a triangle with base 10 inches and height 4 inches. area = 20 inches ²	
Identify the angle type as acute, right or obtuse.	53) 135° obtuse	54) 70° acute	55) 90° right

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: (3, 0) F: (-5, -8) G: (0, -5) H: (6, -4) 
---	--

Word Problems

58) Mary ran 3.5 miles each day for 4 days. How far did she run in total? 14 miles	59) A class has 18 boys and 12 girls. What is the ratio of boys to girls? 3:2	60) A rectangle has a length twice its width. If the width is 6 inches, what is the perimeter? 36 inches
---	--	--

Which skill did you find the easiest?	Which skill did you find most challenging?
--	---