



# HOLY SPIRIT

PREPARATORY SCHOOL

## *Rising 8th Grade*

### Summer Assignments

Academic Year – 2023-2024

#### **Course Information**

Department: STEM: Middle School Mathematics

Class Description: 8<sup>th</sup> Grade Math/ Pre-Algebra

Contact: Mrs. Turmel [sturmel@holyspiritprep.org](mailto:sturmel@holyspiritprep.org) for any questions

#### **Summer Assignment**

##### Learning objectives

- Practice integer, fraction and decimal skills with addition, subtraction, multiplication, and division.
- Utilize slope-intercept form.

##### Estimate time of completion

2-3 hours

##### Details of Assignment

1. Complete the attached problem set. **NO CALCULATOR** may be used. Please attach work shown with each problem neatly labeled. Write your final answer to each problem on the summer work sheet, next to the problem itself.

**Evaluate each expression.**

1)  $6 - 4$

2)  $3 - (-1)$

3)  $1 - 1$

4)  $(-4) - (-8)$

**Find each product.**

5)  $-2 \times 9$

6)  $-10 \times 8$

7)  $-2 \times 3$

8)  $10 \times -1$

**Find each quotient.**

9)  $7 \div -7$

10)  $-14 \div 2$

11)  $15 \div -5$

12)  $-32 \div 8$

**Evaluate each expression.**

13)  $5 + 2 - 3$

14)  $4 + 6 \div 2$

15)  $5 + 3 \times 5$

16)  $(2 - 1)^2$

17)  $6 + 3 + 6$

18)  $1 + 6 - 2$

**Simplify each expression.**

19)  $10 - 5k - 9k + 2$

20)  $3x - 4 + 5x$

**Simplify each. Write your answer as a mixed number when possible.**

21)  $1\frac{4}{12}$

22)  $\frac{36}{30}$

23)  $5\frac{12}{30}$

24)  $3\frac{12}{84}$

**Evaluate each expression.**

25)  $-\frac{11}{7} - \frac{5}{4}$

26)  $-\frac{1}{6} - \frac{3}{4}$

27)  $\frac{9}{5} - \frac{7}{5}$

28)  $\frac{3}{8} + \frac{13}{8}$

29)  $(-8) - \left(-1\frac{1}{2}\right)$

30)  $3\frac{3}{8} + 2\frac{3}{8}$

**Find each product.**

31)  $-2 \times \frac{3}{2}$

32)  $\frac{4}{5} \times -\frac{3}{2}$

33)  $-2\frac{4}{5} \times 5\frac{3}{10}$

34)  $5\frac{1}{10} \times \frac{1}{5}$

**Find each quotient.**

35)  $\frac{9}{10} \div \frac{17}{10}$

36)  $\frac{-1}{7} \div \frac{1}{5}$

**Write each as a numeral.**

37) four hundred and eighty-one hundredths

38) seven hundred and two hundredths

39) three hundred and four tenths

40) eight hundred and six tenths

**Round each to the place indicated.**

41) 8.02; tenths

42) 6.71; tenths

43) 32,259,748.6; ten thousands

44) 7,730,806; millions

**Evaluate each expression.**

45)  $3.6 - 3.2$

46)  $(-6.15) - (-4.3)$

47)  $1.2 + (-2.5)$

48)  $6.7 + 6.4$

**Find each product.**

49)  $-6.6 \times 1.9$

50)  $0.8 \times 9.4$

51)  $-4.7 \times 7.36$

52)  $2.5 \times 0.2$

**Find each quotient.**

53)  $0.6 \div -0.8$

54)  $4.3 \div 4.3$

**Write each as a decimal. Round to the hundredths place.**

55) 11%

56) 7%

**Find the LCM of each.**

57) 21, 24

58) 20, 30

59) 33, 17

60) 21, 35

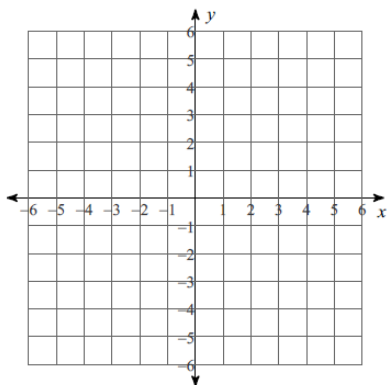
**Find the GCF of each.**

61) 24, 36

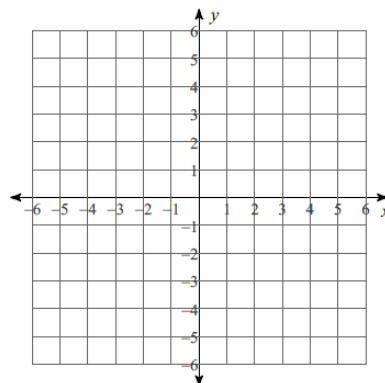
62) 44, 20

Sketch the graph of each line.

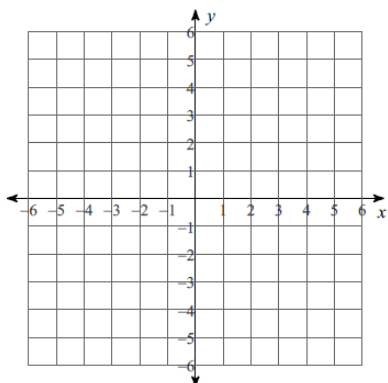
63)  $y = x$



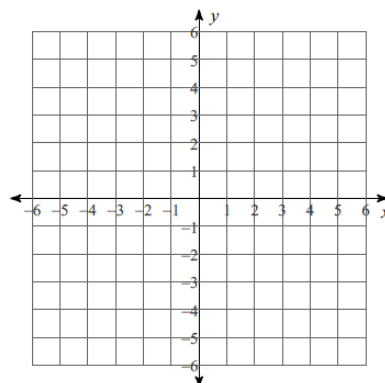
64)  $y = \frac{1}{4}x + 2$



65)  $y = -\frac{3}{2}x + 4$

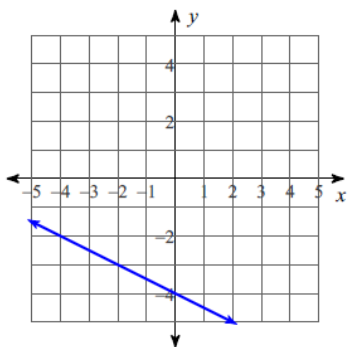


66)  $y = \frac{9}{5}x + 5$

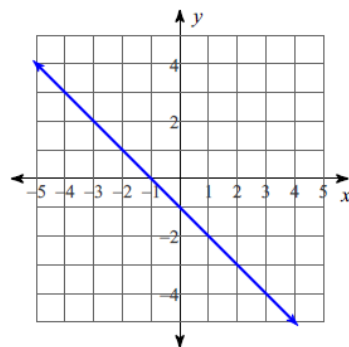


Write the slope-intercept form of the equation of each line.

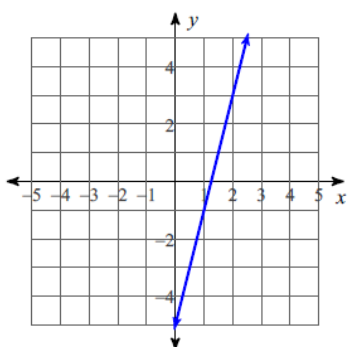
67)



68)



69)



70)

