Mathematics Summer Packet
Students Entering Grade 7

Name:

Points: 30

This packet should be completed and submitted to your mathematics teacher by September 8, 2025.

Compare and Order Whole Numbers

Use $<$, $>$, or $=$ to compare the whole numbers.

1. 1,615 _____ 1,015

2. 549 _____ 2,986

3. 7,099 _____ 9,001

4. 14,999 _____ 15,000

5. 24,777 _____ 3,052

6. 98,455 _____ 98,450

Compare Decimals

Use $<$, $>$, or $=$ to compare the decimals.

7. 0.993 _____ 0.421

8. 1.499 _____ 1.500

9. 5.16 _____ 5.160

10. 1.009 _____ 1.09

11. 4.087 _____ 3.987

12. 0.11 _____ 1.066

Identify Points on a Coordinate Grid

Graph and label each ordered pair on the coordinate grid.

13. (1, 4)

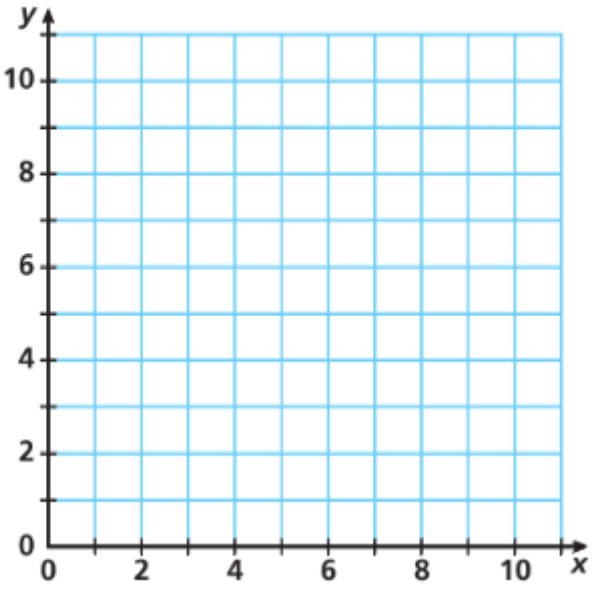
14. (2, 7)

15. (8, 1)

16. (5, 5)

17. (0, 3)

18. (6, 0)



Multiply or Divide to Find Equivalent Fractions

Multiply or divide to find the equivalent fraction.

1. $\frac{4}{5} = \frac{\square}{15}$

2. $\frac{9}{12} = \frac{3}{\square}$

3. $\frac{5}{8} = \frac{\square}{24}$

Compare Fractions

Complete the statement using the symbol $<$, $>$, or $=$.

4. $\frac{7}{8} \_\_\_\_ \frac{9}{8}$

5. $\frac{5}{8} \_\_\_\_ \frac{5}{9}$

6. $\frac{3}{4} \_\_\_\_ \frac{5}{6}$

Compare Decimals

Complete the statement using the symbol $<$, $>$, or $=$.

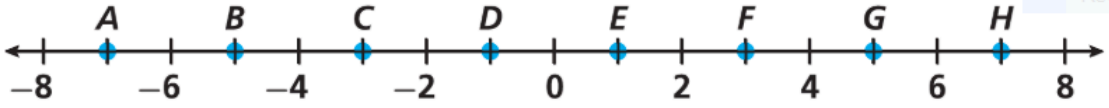
7. 0.51 ____ 0.46

8. 1.073 ____ 1.703

9. 3.60 ____ 3.6

Opposites and Absolute Value

10. Use the number line to complete the table. The first row is completed as shown.



Point	Opposite	Absolute Value
A	*H*	7
C		
D		
G		

Factors

Find all factor pairs for each number.

1. 18

2. 21

3. 48

4. 65

Add Fractions and Decimals

Find each sum or difference.

5. $7.2 + 2.6$

6. $8.5 - 7$

7. $7.55 - 3.25$

8. $\frac{1}{3} + \frac{1}{5}$

9. $\frac{9}{10} - \frac{7}{8}$

10. $\frac{1}{6} + \frac{5}{12}$

Multiply Fractions

Find each product.

11. $\frac{3}{4} \times \frac{5}{8}$

12. $\frac{5}{6} \times \frac{9}{10}$

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

Divide with Unit Fractions and Whole Numbers

Find each quotient.

14. $6 \div \frac{1}{3}$

15. $1 \div \frac{1}{10}$

16. $\frac{1}{4} \div 6$

Place Value of Decimals

Complete each statement.

1. The value of 3 in 10.31 is _____ times as much as the value of 3 in 10.13.

2. The value of 8 in 5.18 is _____ of the value of 8 in 5.81.

3. The value of 7 in 17.92 is _____ times as much as the value of 7 in 92.17.

Compare Decimals

Complete the inequality or equation using the symbols $<$, $>$, or $=$.

4. 0.54 _____ 0.6 **5.** 1.30 _____ 1.3 **6.** 0.22 _____ 0.18

Add Fractions and Decimals

Complete the number sentence.

7. $2.67 + 8.52 =$ _____

8. $14.38 + 31.73 =$ _____

Multiply with Decimals

Complete the number sentence.

9. $3.14 \times 6.25 =$ _____

10. $5.02 \times 7.35 =$ _____

Division

Find the quotient.

11. $7{,}296 \div 24 =$ _____

12. $9{,}216 \div 18 =$ _____

Multiply or Divide to Find Equivalent Fractions

Multiply or divide to find the equivalent fraction.

1. $\frac{5}{8} = \frac{\square}{32}$ **2.** $\frac{45}{55} = \frac{9}{\square}$ **3.** $\frac{\square}{7} = \frac{16}{28}$

Find two equivalent fractions, one by multiplying and one by dividing.

4. $\frac{12}{16}$ **5.** $\frac{8}{10}$ **6.** $\frac{9}{15}$

_____ _____ _____

Analyze Patterns and Relationships

Complete each pattern.

7. 10, 15, 20, _____, _____, _____, _____,

8. 17, 22, 27, _____, _____, _____, _____,

9. How are the patterns related?

_____

_____

_____

_____

_____

Division Involving Decimals

Find the quotient.

10. 11.6 ÷ 4 _____ **11.** 48 ÷ 0.6 _____ **12.** 1.18 ÷ 0.2 _____

13. 4.96 ÷ 1.6 _____ **14.** 5.4 ÷ 3.6 _____ **15.** 7.67 ÷ 1.3 _____

Multiply or Divide to Find Equivalent Fractions

Multiply or divide to find the equivalent fraction.

1. $\frac{21}{60} = \frac{\square}{360}$ _____

2. $\frac{51}{120} = \frac{\square}{360}$ _____

3. $\frac{143}{180} = \frac{\square}{360}$ _____

Ratio Language

There are 8 sixth-graders and 16 seventh-graders in a class. Complete each ratio for this class.

4. The ratio of sixth-graders to seventh-graders is 8 to _____ .

5. There is 1 sixth-grader for every _____ seventh-graders.

6. The ratio of seventh-graders to total students is _____ :3.

7. 1 out of every _____ students is a sixth-grader.

Representing Equivalent Ratios

Complete the table of equivalent ratios.

8. Maris is making a necklace. She uses 4 silver beads for each gold bead.

Silver	4	8		
Gold	1		3	

9. Kendra is making trail mix. She uses 3 cups of peanuts for each cup of raisins.

Raisins	1	2		4	
Peanuts	3		9		