

Immaculate Conception School
Summer Math Packet 2026 - Math 7

Name: _____

This summer packet consists of topics and material you learned this year. Please show all of your work on loose leaf paper. You may use your notes and study guides in google classroom as needed. If you run into a question or two you are unsure of, show as much work as possible and work through it to the best of your ability.

Please work on this packet in small chunks throughout the summer, not in one sitting.

Continue to review your multiplication facts up to 13, all operations of fractions (including converting mixed numbers) and decimals. A few online resources that will be helpful:

www.mathantics.com

www.mashupmath.com

www.khanacademy.com

Packets will be collected on the first day of school!

Have a terrific summer! I look forward to working with you next year!

Find the sum.

1. $4\frac{5}{6} + \frac{4}{5} =$ _____

2. $8\frac{1}{2} + \frac{1}{6} =$ _____

3. $3\frac{5}{8} + \frac{1}{2} =$ _____

4. $1\frac{6}{10} + \frac{1}{4} =$ _____

5. $7\frac{1}{5} + \frac{7}{11} =$ _____

6. $1\frac{1}{4} + \frac{4}{10} =$ _____

7. $8\frac{1}{7} + \frac{8}{9} =$ _____

8. $6\frac{4}{9} + \frac{1}{3} =$ _____

9. $8\frac{3}{6} + \frac{8}{11} =$ _____

10. $7\frac{3}{9} + \frac{3}{7} =$ _____

11. $8\frac{1}{5} + \frac{1}{2} =$ _____

12. $5\frac{3}{4} + \frac{5}{8} =$ _____

13. $9\frac{9}{12} + \frac{1}{3} =$ _____

14. $3\frac{6}{8} + \frac{5}{11} =$ _____

Find the difference.

1. $\frac{2}{3} - \frac{1}{3} =$ _____

2. $\frac{4}{11} - \frac{2}{6} =$ _____

3. $\frac{3}{4} - \frac{2}{3} =$ _____

4. $\frac{2}{3} - \frac{3}{6} =$ _____

5. $\frac{11}{12} - \frac{2}{5} =$ _____

6. $\frac{8}{10} - \frac{4}{8} =$ _____

7. $\frac{4}{11} - \frac{1}{3} =$ _____

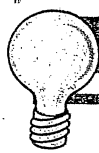
8. $\frac{4}{5} - \frac{3}{6} =$ _____

9. $\frac{5}{11} - \frac{1}{4} =$ _____

10. $\frac{7}{12} - \frac{1}{3} =$ _____

11. $\frac{2}{4} - \frac{1}{5} =$ _____

12. $\frac{9}{10} - \frac{3}{4} =$ _____

**Check What You Learned****Multiplying and Dividing Fractions**

Multiply. Write answers in simplest form.

a
1. $\frac{2}{3} \times \frac{3}{4}$

b
 $\frac{1}{2} \times \frac{3}{8}$

c
 $\frac{7}{8} \times \frac{3}{5}$

d
 $\frac{2}{7} \times \frac{5}{8}$

2. $\frac{2}{3} \times 5$

$4 \times \frac{7}{8}$

$\frac{3}{5} \times 12$

$8 \times \frac{4}{7}$

3. $3\frac{1}{8} \times 4$

$5 \times 7\frac{1}{2}$

$3\frac{2}{3} \times 6$

$10 \times 1\frac{2}{3}$

4. $2\frac{1}{2} \times 3\frac{1}{3}$

$1\frac{1}{5} \times 3\frac{3}{4}$

$2\frac{1}{2} \times 2\frac{1}{2}$

$4\frac{1}{3} \times 2\frac{3}{5}$

Write the reciprocal.

5. $\frac{3}{8}$ _____

5 _____

$\frac{12}{5}$ _____

$\frac{4}{7}$ _____

Divide. Write answers in simplest form.

6. $5 \div \frac{2}{3}$

$\frac{4}{5} \div 5$

$7 \div \frac{3}{8}$

$\frac{7}{8} \div 2$

7. $\frac{2}{3} \div \frac{4}{5}$

$\frac{7}{8} \div \frac{2}{3}$

$\frac{4}{7} \div \frac{3}{8}$

$\frac{5}{12} \div \frac{3}{4}$

8. $3\frac{1}{8} \div 2\frac{1}{2}$

$4\frac{2}{3} \div 3\frac{1}{2}$

$2\frac{3}{4} \div 2\frac{3}{4}$

$1\frac{1}{2} \div 3\frac{1}{8}$

Lesson 1.9 Multiplying Decimals

The number of digits to the right of the decimal point in the product is the sum of the number of digits to the right of the decimal point of the factors.

$$\begin{array}{r} 0.4 \\ \times 0.2 \\ \hline 0.08 \end{array}$$

$$\begin{array}{r} 0.28 \\ \times 0.6 \\ \hline 0.168 \end{array}$$

$$\begin{array}{r} 3.2432 \\ \times 0.13 \\ \hline 97296 \\ + 32432 \\ \hline 0.421616 \end{array}$$

If needed, add zeros as place holders.

Multiply.

a

$$\begin{array}{r} 1. \quad 0.7 \\ \times 8 \\ \hline \end{array}$$

b

$$\begin{array}{r} 0.08 \\ \times 0.5 \\ \hline \end{array}$$

c

$$\begin{array}{r} 0.325 \\ \times 0.3 \\ \hline \end{array}$$

d

$$\begin{array}{r} 1.68 \\ \times 8 \\ \hline \end{array}$$

e

$$\begin{array}{r} 25 \\ \times 0.7 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 0.03 \\ \times 3.06 \\ \hline \end{array}$$

$$\begin{array}{r} 0.162 \\ \times 0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 8.03 \\ \times 3.5 \\ \hline \end{array}$$

$$\begin{array}{r} 0.297 \\ \times 7.1 \\ \hline \end{array}$$

$$\begin{array}{r} 76.4 \\ \times 3.6 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 53.64 \\ \times 0.37 \\ \hline \end{array}$$

$$\begin{array}{r} 328.1 \\ \times 0.63 \\ \hline \end{array}$$

$$\begin{array}{r} 9.806 \\ \times 31 \\ \hline \end{array}$$

$$\begin{array}{r} 600.3 \\ \times 0.034 \\ \hline \end{array}$$

$$\begin{array}{r} 895 \\ \times 0.63 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 27.1 \\ \times 3.54 \\ \hline \end{array}$$

$$\begin{array}{r} 3.263 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 1.253 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 58.9 \\ \times 0.038 \\ \hline \end{array}$$

$$\begin{array}{r} 0.82 \\ \times 0.82 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 0.283 \\ \times 0.6 \\ \hline \end{array}$$

$$\begin{array}{r} 0.178 \\ \times 53 \\ \hline \end{array}$$

$$\begin{array}{r} 0.83 \\ \times 0.23 \\ \hline \end{array}$$

$$\begin{array}{r} 3.6 \\ \times 0.025 \\ \hline \end{array}$$

$$\begin{array}{r} 48.2 \\ \times 0.26 \\ \hline \end{array}$$

Lesson 1.10 Dividing by Two Digits

Multiply the divisor and dividend by 10, by 100, or by 1,000 so the divisor is a whole number.

$$\begin{array}{r} 3.5 \overline{)14.0} = 35 \overline{)140} \\ \text{Multiply} \\ \text{by 10.} \quad \underline{-140} \\ 0 \end{array}$$

$$\begin{array}{r} 0.42 \overline{)16.80} = 42 \overline{)1680} \\ \text{Multiply} \\ \text{by 100.} \quad \underline{-1680} \\ 0 \end{array}$$

$$\begin{array}{r} 0.27 \overline{)8100} = 27 \overline{)8100} \\ \text{Multiply} \\ \text{by 1,000.} \quad \underline{-8100} \\ 0 \end{array}$$

Divide.

a**b****c****d**

1. $2.3 \overline{)5.06}$

$3.4 \overline{)289}$

$5.2 \overline{)2.08}$

$7.2 \overline{)10.8}$

2. $0.45 \overline{)18}$

$0.22 \overline{)1.166}$

$0.63 \overline{)25.2}$

$0.98 \overline{)63.7}$

3. $0.032 \overline{)96}$

$0.015 \overline{)0.45}$

$0.068 \overline{)0.017}$

$0.012 \overline{)0.0144}$

4. $2.4 \overline{)0.96}$

$0.62 \overline{)24.8}$

$0.016 \overline{)0.08}$

$0.85 \overline{)5.1}$

Lesson 3.1 Understanding Ratios

A **ratio** compares 2 numbers. When written out, several phrases can show how the ratio should be written.

4 to 2

4:2

 $\frac{4}{2}$ or $\frac{2}{1}$

6 out of 8

6:8

 $\frac{6}{8}$ or $\frac{3}{4}$

Express each ratio as a fraction in simplest form.

a**b**

- | | |
|---|-------------------------------------|
| 1. 15 feet out of 36 feet _____ | 5 pounds to 35 pounds _____ |
| 2. 48 rainy days out of 60 days _____ | 28 snow days out of 49 days _____ |
| 3. 10 pints to 20 pints _____ | 40 cups to 55 cups _____ |
| 4. 10 miles out of 12 miles _____ | 28 red bikes out of 40 bikes _____ |
| 5. 18 beetles out of 72 insects _____ | 63 gallons to 84 gallons _____ |
| 6. 49 dimes out of 77 coins _____ | 12 cakes out of 36 cakes _____ |
| 7. 15 students out of 30 students _____ | 3 floors out of 18 floors _____ |
| 8. 36 meters out of 100 meters _____ | 14 hats out of 20 accessories _____ |
| 9. 80 scores out of 90 scores _____ | 2 sports out of 19 sports _____ |
| 10. 42 cars out of 124 cars _____ | 7 messages out of 84 messages _____ |

**Check What You Learned****Integer Concepts**

Name the opposite of each number.

a1. The opposite of -9 is _____.2. The opposite of 22 is _____.3. The opposite of -5 is _____.**b**The opposite of 17 is _____.The opposite of -41 is _____.The opposite of 76 is _____.

Find the absolute value of each integer.

a4. $|3| =$ _____5. $-|-29| =$ _____6. $|-26| =$ _____**b** $-|10| =$ _____ $|12| =$ _____ $|2| =$ _____**c** $|-45| =$ _____ $|-8| =$ _____ $-|-18| =$ _____Compare the integers using $<$, $>$, or $=$.**a**7. $92 \square 79$ 8. $-77 \square 15$ 9. $-18 \square -76$ **b**50 $\square$ -76 $-11 \square -49$ 44 $\square$ 72 **c** $-74 \square -35$ $-14 \square -73$ $-45 \square -12$

Order from least to greatest.

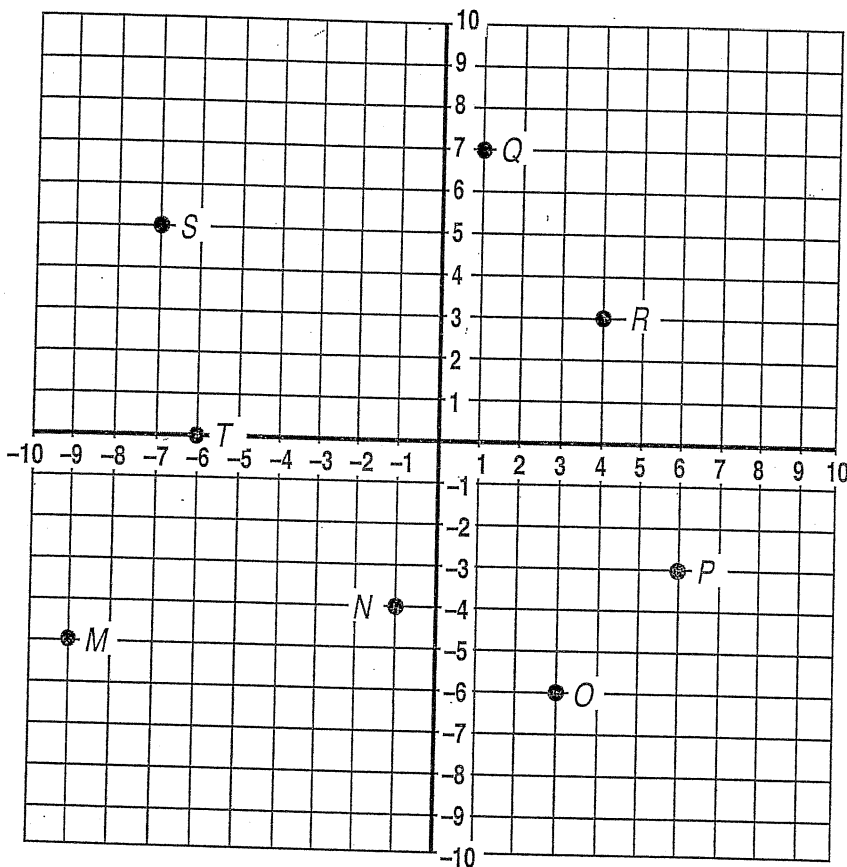
a10. $-70, 60, -28, 86$ _____11. $-97, -71, 36, -63$ _____12. $38, 56, 89, 48$ _____**b** $-17, 45, -54, -38$ _____ $-36, 60, 26, 63$ _____ $49, 97, -47, 78$ _____



Check What You Learned

Integer Concepts

Use the coordinate grid to answer the questions.



Write the ordered pair for each point.

13. M _____

14. O _____

15. Q _____

16. S _____

Name the point located at each ordered pair.

17. $(6, -3)$ _____

18. $(-6, 0)$ _____

19. $(-1, -4)$ _____

20. $(4, 3)$ _____

Mark the following points on the coordinate grid.

21. U at $(-3, 4)$

22. V at $(-5, -8)$

23. W at $(5, -5)$

24. X at $(2, 6)$

25. How many units is it from Point P to Point M? _____ units

26. How many units is it from Point T to Point Q? _____ units