

Name: _____

Date: _____

5th Honors Math

2026-2027 Summer Math Packet

Dear Students,

Attached you will find your summer math packet. This packet is a way for you to keep your math skills sharp over the summer and ready for September.

- Please make sure to follow the directions and show **ALL** work! You will not receive credit if your work is not shown. An important part of math is being able to show the process of how you arrive at an answer.
- Be neat and organized! Use all the paper you need and hand it in with your packet. Be sure your papers are labeled.
- Please box your final answers.
- Don't rush and check your work!
- An important part of being in honors math is knowing your multiplication and division facts. I expect you to have memorized all of your facts up to 15. Be sure to practice them over the summer.

I look forward to seeing you all in September. Have a great summer!!

Mrs. Davis

Summer Honors Math Packet

Name: _____

A. All problems in the packet are complete.

Points: 10 8 6 4 2

B. Detailed work process is shown for each problem(use extra paper if needed).

Points: 10 8 6 4 2

C. Work is neat and organized.

Points: 5 4 3 2 1

D. Summer packet is handed in on time(the first day of school). One point will be deducted for each day the assignment is late.

Points: 5 4 3 2 1

Total Points Possible: 30

Points Earned: _____

Name _____ Date _____

Place Value

Compare. Use $<$, $>$, or $=$.

1. 325,000 $\bigcirc$ 315,000

1. _____

2. 512,302 $\bigcirc$ 513,203

2. _____

3. 714,985 $\bigcirc$ 714,985

3. _____

Round to the given place-value position.

4. 136,458 thousands

4. _____

5. 358,749 ten thousands

5. _____

6. 867,309 hundred thousands

6. _____

Order the numbers from *least* to *greatest*.

7. 574,252; 575,225; 574,225

7. _____

8. 630,928; 603,928; 603,829

8. _____

9. Write *three hundred forty-nine thousand, six hundred two* in standard form and expanded form.

9. _____

10. The population of Sun City is 1,824,658. What is the value of the 2 in this number?

10. _____

11. The Red Rockets soccer team has 54,650 fans registered on their website. The Blue Lightning soccer team has 54,560 fans registered on their website. Which soccer team has a greater number of fans registered on their website?

11. _____

Name _____ Date _____

Place Value Vocabulary

Match the words to the correct definition or symbol.

- | | | |
|--------------------|-------|--|
| 1. is greater than | _____ | A. An answer that is close to an exact answer. |
| 2. number line | _____ | B. = |
| 3. digit | _____ | C. The name given to each group of three digits in a place-value chart. |
| 4. is equal to | _____ | D. The value given to a digit by its place in a number. |
| 5. word form | _____ | E. The form of a number that uses written words. |
| 6. expanded form | _____ | F. A line with numbers on it in order at regular intervals. |
| 7. place value | _____ | G. > |
| 8. period | _____ | H. The usual way of writing a number that shows only its digits, no words. |
| 9. standard form | _____ | I. A symbol used to write numbers. |
| 10. is less than | _____ | J. < |
| 11. estimate | _____ | K. The representation of a number as a sum that shows the value of each digit. |

Name _____ Date _____

Add and Subtract Whole Numbers

Find each unknown. Write each property or rule that is used.

1. $12 + 13 = 13 + \boxed{}$

1. _____

2. $45 - \boxed{} = 0$

2. _____

3. $11 + (\boxed{} + 2) = (11 + 9) + 2$

3. _____

Write each number.

4. 1,000 less than 27,412

4. _____

5. 100 more than 823,645

5. _____

Estimate each sum or difference.

6.
$$\begin{array}{r} 772 \\ - 334 \\ \hline \end{array}$$

6. _____

7.
$$\begin{array}{r} 923 \\ + 75 \\ \hline \end{array}$$

7. _____

Find each sum or difference.

8.
$$\begin{array}{r} 251,905 \\ + 44,590 \\ \hline \end{array}$$

8. _____

9.
$$\begin{array}{r} 5,000 \\ - 3,139 \\ \hline \end{array}$$

9. _____

Write an equation using a variable for the unknown.

10. Amelia had \$10. She bought a banana for \$2 and a carton of milk. She now has \$7. How much did the carton of milk cost?

10. _____

Name _____ Date _____

Add and Subtract Whole Numbers Vocabulary

Using the words in the word bank, complete each sentence to make a true statement.

Associative Property

Commutative Property

difference

estimate

Identity Property

round

1. The way in which numbers are grouped does not change the sum. This is the _____.
2. When you subtract 2 from 7, the _____ is 5.
3. The sum of any number and 0 is the number. This is the _____.
4. An _____ is an answer close to the exact answer.
5. The order in which numbers are added does not change the sum. This is the _____.
6. To change the value of a number to one that is easier to work with is to _____.

Name _____ Date _____

Understand Multiplication and Division

Use repeated subtraction to divide.

1. $21 \div 3 =$

1. _____

2. $10 \div 5 =$

2. _____

3. $24 \div 6 =$

3. _____

Solve.

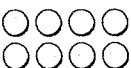
4. $6 \times 2 \times 5 =$

4. _____

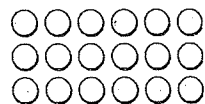
5. $1 \times 3 \times 5 =$

5. _____

Write a fact family for each array.

6. 

6. _____

7. 

7. _____

Find the factors of the numbers below.

8. 30

8. _____

9. 24

9. _____

Identify the first five multiples.

10. 4

10. _____

11. 10

11. _____

12. Abbi has 4 hats. Yan has 7 times as many.
How many hats does Yan have?

12. _____

13. Carl has 24 pieces of gum. This is 3 times as many
pieces as what Sam has. How many pieces of gum
does Sam have?

13. _____

Name _____ Date _____

Multiply With One-Digit Numbers

Multiply.

1. $7 \times 10 =$

1. _____

2. $3 \times 300 =$

2. _____

3. $5 \times 2,000 =$

3. _____

4. $\begin{array}{r} 23 \\ \times 2 \\ \hline \end{array}$

4. _____

5. $\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$

5. _____

6. $\begin{array}{r} 37 \\ \times 3 \\ \hline \end{array}$

6. _____

7. $\begin{array}{r} 143 \\ \times 2 \\ \hline \end{array}$

7. _____

8. $\begin{array}{r} 2,467 \\ \times 3 \\ \hline \end{array}$

8. _____

9. $\begin{array}{r} 508 \\ \times 2 \\ \hline \end{array}$

9. _____

10. Jake's Fishing Company catches 358 fish a day. Round to the greatest place value and estimate the number of fish they catch in one week.

10. _____

11. Tucker uses 40 cherries in each pie. He needs to bake 8 cherry pies. How many cherries does Tucker need to bake his pies?

11. _____

12. A landscaping company is buying new lawn mowers. Each mower costs \$305. How much will 6 lawn mowers cost?

12. _____

Name _____ Date _____

Multiply with Two-Digit Numbers

Multiply.

1. $20 \times 50 =$

1. _____

2. $17 \times 60 =$

2. _____

3. $13 \times 24 =$

3. _____

4. $22 \times 44 =$

4. _____

Estimate.

5. $12 \times 11 =$

5. _____

6. $36 \times 29 =$

6. _____

7. $84 \times 27 =$

7. _____

Solve.

8. Mark is getting ready for the first day of school. He has 12 packs of pencils. Each pack has 10 pencils. How many pencils does Mark have?

8. _____

9. Marcia wants to buy 17 tickets to a major league baseball game. The tickets cost \$28 each. Stacy wants to buy 5 tickets to the same game. How much money will all the tickets cost?

9. _____

10. Jake has 26 baseball cards. Ricky has 4 times as many baseball cards as Jake. How many cards do they have all together?

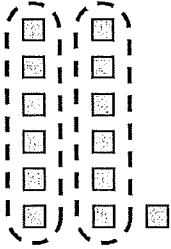
10. _____

Name _____ Date _____

Divide By a One Digit Number

Divide.

1. Write the division sentence shown by the model.



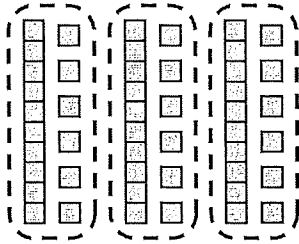
1. _____

2. _____

3. _____

4. _____

2. Write the division sentence shown by the model.



5. _____

6. _____

7. _____

3. $10 \div 3 =$

4. $12 \div 6 =$

5. $100 \div 2 =$

6. $78 \div 4 =$

7. $200 \div 5 =$

8. $456 \div 5 =$

9. $714 \div 7 =$

10. $2,542 \div 2 =$

9. _____

11. Estimate $35 \div 9 =$

12. Estimate $124 \div 3 =$

10. _____

Solve.

11. _____

13. Iris has 120 pencils. She divided them equally between 4 friends. One of her friends, Cami, already had 18 pencils. How many pencils does Cami have now?

12. _____

14. Merlin has \$256 to spend on picture frames. Each picture frame costs \$8. How many picture frames can he buy?

13. _____

14. _____

Name _____ Date _____

Patterns and Sequences

Write your answer on the line provided.

Identify, describe, and extend each pattern.

1. 43, 35, 27, 19, 11, _____, _____

1. _____

2. 2, 6, 18, 54, _____, _____

2. _____

3. Eli has gym class on Monday and Tuesday and art class on Wednesday, Thursday, and Friday. Finish the pattern for Eli's gym and art class schedule for two weeks.

Eli's Class Schedule for Two Weeks									
M	T	W	T	F	M	T	W	T	F
Gym	Gym	Art	Art	Art	Gym				

3. _____

4. Write an equation that describes the pattern. Then use the equation to find the next two numbers.

Input (a)	6	10	14	18	22
Output (b)	13	17	21		

4. _____

Find the value of each expression.

5. $2 + 8 \div 2 =$

6. $3 \times (18 \div 6) + 1 =$

5. _____

7. $(10 - 3) \times 9 =$

8. $(28 \div 4) - (3 \times 2) =$

6. _____

9. Erin has 8 sweaters in each of 3 drawers. If she also has 6 sweaters hanging in her closet, how many sweaters does she have in all?

7. _____

8. _____

9. _____

10. Cole is making 5 sandwiches. He puts 8 pieces of bacon on the first sandwich, 6 on the second and 4 on the third. How many pieces of bacon will be on the fifth sandwich?

10. _____

Use each equation to find each unknown.

11. $(8 + x) \times 2 = y$; if $x = 5$, $y =$ 

11. _____

12. $14 - (a \times 4) = b$; if $a = 3$, $b =$ 

12. _____

Name _____ Date _____

Fractions

Find the factor pairs of each number.

1. 48

1. _____

2. 56

2. _____

Tell whether each number is *prime*, *composite*, or *neither*.

3. 25

3. _____

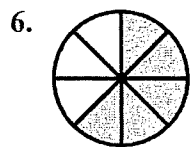
4. 1

4. _____

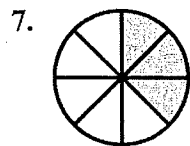
5. 31

5. _____

Write the fraction for the part that is shaded. Then find an equivalent fraction.



6. _____



7. _____

Write each fraction in simplest form.

8. $\frac{5}{10}$

9. $\frac{6}{8}$

10. $\frac{4}{12}$

10. _____

Compare. Use $>$, $<$, or $=$.

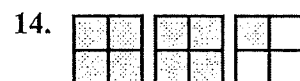
11. $\frac{3}{10}$  $\frac{1}{2}$

12. $\frac{9}{12}$  $\frac{3}{4}$

11. _____

12. _____

Write a mixed number for each model.



13. _____

14. _____

15. Jenna has 2 whole watermelons and one-third of another watermelon. Write a mixed number and improper fraction to represent the amount of watermelons she has.

15. _____

Name _____ Date _____

Operations and Fractions

Find each sum. Write in simplest form.

1. $\frac{1}{3} + \frac{1}{3} =$

1. _____

2. $\frac{3}{8} + \frac{3}{8} =$

2. _____

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

3. _____

4. $6\frac{2}{6} + 2\frac{3}{6} =$

4. _____

Find each difference. Write in simplest form.

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

5. _____

6. $\frac{5}{12} - \frac{2}{12} =$

6. _____

7. $5\frac{3}{4} - 3\frac{1}{4} =$

7. _____

8. Rose has $4\frac{2}{6}$ boxes of markers. She gives $2\frac{1}{6}$ of the boxes to her friend. How many boxes of markers does Rose have left?

8. _____

Multiply. Write in simplest form.

9. $3 \times \frac{2}{3} =$

9. _____

10. $5 \times \frac{7}{10} =$

10. _____

11. $2 \times \frac{1}{6} =$

11. _____

Solve.

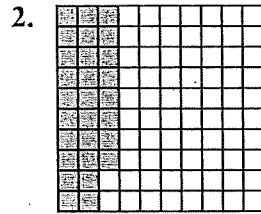
12. Sonya, Jill, and Donna run each Monday. Jill ran $\frac{6}{12}$ of an hour and Donna ran $\frac{5}{12}$ of an hour. If the girls ran a total of one whole hour, what fraction of an hour did Sonya run?

12. _____

Name _____ Date _____

Fractions and Decimals

Write each decimal.



1. _____

2. _____

Write as a fraction and as a decimal.

3. seven tenths

3. _____

4. one out of ten

4. _____

5. Alaina earned 92 out of 100 points on her science project. What fraction and decimal shows the part of the points that Alaina earned?

5. _____

Compare. Use $>$, $<$, or $=$.

6. 0.5  0.7

6. _____

7. 0.12  0.21

7. _____

8. 0.38  0.3

8. _____

Add. Write each sum as a fraction and as a decimal.

9. $\frac{3}{10} + \frac{4}{10} =$

9. _____

10. $\frac{5}{10} + \frac{23}{100} =$

10. _____

11. $\frac{2}{10} + \frac{45}{100} =$

11. _____

Solve.

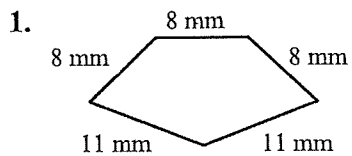
12. Carlos had 45 pennies. Lou had 30 pennies. Dustin had 25 pennies. Out of 100 pennies, how many pennies did Lou and Dustin have altogether? Write this number as a fraction and as a decimal.

12. _____

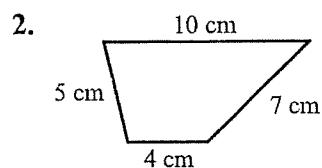
Name _____ Date _____

Perimeter and Area

Find the perimeter of each figure.

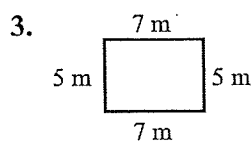


1. _____

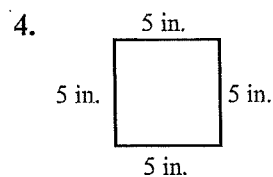


2. _____

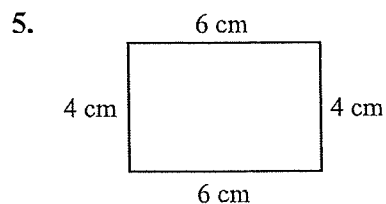
Find the area of the square or rectangle.



3. _____

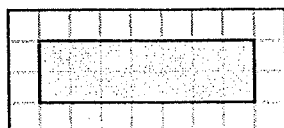


4. _____



5. _____

6. Find the perimeter and area of the rectangle.



Perimeter: _____

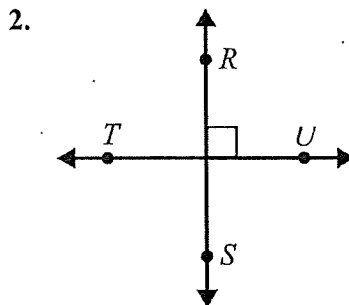
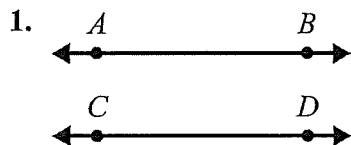
Area: _____

6. _____

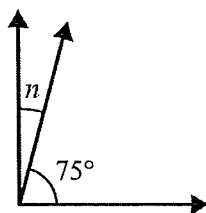
Geometry

Identify each figure. Use *parallel*, *perpendicular*, or *intersecting*.

Use the most specific term.



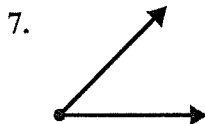
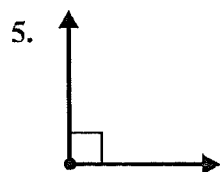
3. Find the measure of the unknown angle.



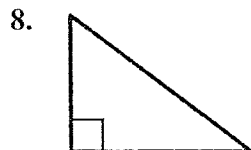
4. Determine whether the figure has line symmetry. Write yes or no. If yes, draw the line(s) of symmetry on the figure.



Classify each angle. Use *acute*, *right*, or *obtuse*.



Classify each triangle. Use *acute*, *right*, or *obtuse*.



1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____