

Summer Math Packet for Incoming 7th Graders

Dear Parents of Incoming 7th Graders,

Attached is a packet of math problems that your child is expected to complete this summer. As you look through it, notice that each section starts with examples that demonstrate how to do problems on that page. It is important that students really study these examples to be sure they understand what to do before completing the practice problems that follow. I've removed problems I didn't feel were needed so it is correct that the problem numbers do not go in order.

Please allow your child to have a couple of weeks off to rest, relax, and just enjoy being a kid! Then, starting with the first week of July, please have him/her complete two pages per week. Please do not allow your child to complete the whole packet in a week at the beginning or end of the summer since that would defeat the purpose of maintaining a constant level of math awareness and skill.

Students should show their work. If there is room, this can be done in the packet as long as it is neat and the answers are circled. Otherwise, the problems should be copied to notepaper, with the page and problem numbers labeled, work shown, and the answers copied back onto the packet next to the original problems.

The use of calculators is not allowed. All work should be done independently. If your child needs help, please review the Examples together, but do not help with the practice problems. Students should not work together since this is my first pass at understanding what help each individual child will need.

We will begin grading the packet immediately in September, so it must be complete and ready to turn in on the first day. All work should be stapled to the back of the packet. The packet will count as a quiz so please ensure that your child takes it seriously and brings it to class on the very first day. As long as a child makes a serious attempt at each problem and the packet is turned in on time, full credit will be given even if some answers are incorrect.

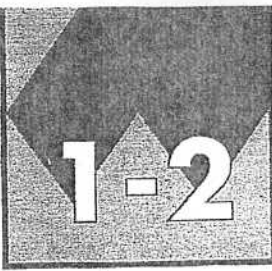
I hope you and your family have a safe, happy, fun summer. I look forward to working with your child in September.

Best regards,



Mrs. Flint

For students who have completed 6th Grade General Math



Name _____

Order of Operations

Algebraic expressions are evaluated using these rules.

Order of Operations
1. Do all operations within grouping symbols first.
2. Multiply and divide in order from left to right.
3. Add and subtract in order from left to right.

PEMDAS

Example Evaluate $56 \div (17 - 9) + 7 \times 3$.

$$\begin{aligned} 56 \div (17 - 9) + 7 \times 3 &= 56 \div 8 + 7 \times 3 && \text{Subtract 9 from 17.} \\ &= 7 + 7 \times 3 && \text{Divide 56 by 8.} \\ &= 7 + 21 && \text{Multiply 7 and 3.} \\ &= 28 && \text{Add 7 and 21.} \end{aligned}$$

Name the operation that should be done first in each expression.

1. $(9 + 3) \times 7$

2. $98 - 5 \times 7$

4. $(15 \div 3) + (4 + 5)$

5. $5 \times 4 \div 2$

Evaluate each expression. (Solve)

7. $2 \times 9 + 5 \times 3$

8. $(9 - 4) \div 5$

10. $15 - 18 \div 9 + 3$

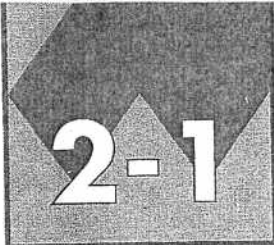
11. $30 \div (12 - 6) + 4$

13. $2(16 - 9) - (5 + 1)$

14. $(43 - 23) - 2 \times 5$

16. $81 \div (13 - 4)$

17. $7 \times 8 - 2 \times 8$

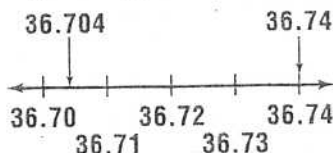


Name _____

Comparing and Ordering Decimals

Which is greater, 36.74 or 36.704?

You can compare decimals like 36.74 and 36.704 on a number line. Numbers to the right are greater than numbers to the left.



You can also compare decimals by comparing the digits in each place-value position.

Find the first place in which the digits are different.

36.704
36.74

Compare the digits.

0 is less than 4.
 $0 < 4$

The decimal with the greater digit is greater.

$36.704 < 36.74$

Draw a number line to show which decimal is greater.

1. 0.39, 0.35

2. 1.95, 2.02

3. 6.55, 6.50

Replace each \bigcirc with $<$, $>$, or $=$ to make a true sentence.

4. 8.05 \bigcirc 8.5

5. 0.76 \bigcirc 0.67

6. 18.20 \bigcirc 18.2

7. 7.004 \bigcirc 7.044

8. 6.79 \bigcirc 6.8

9. 29.922 \bigcirc 29.299

Order each set of numbers from least to greatest.

10. 0.067, 0.6, 0.76, 0.07

11. 56.2, 55.6, 52.2, 56.02

12. 600.09, 609.06, 600.9, 609.9

13. 0.88, 0.9, 0.08, 0.89

