Packet due: The 3rd full day of school

Dear Riverside Students and Parents,

I know most are looking forward to a stress free summer. I encourage students to practice math by completing this summer packet or completing the listed ixls for the grade levels to keep those skills fresh. These assignments will focus on some of the skills and concepts necessary for success in your grade as well as sharpen skills you have already learned. Please complete the packet in pencil and make sure your handwriting is legible. If you choose to do the IXL, the number indicates grade level, the letter and number indicate lesson. It's the same criteria we followed during the school year. (20 mins or 80%). If the lesson was already completed, it must be done again. Simply click on it and begin again. Do not use a calculator because you will not be allowed to use one in class. Have a fun and safe summer and I look forward to seeing you in August!!!

5th to 6th ixl

3rd f6	3 f7	3f8	3f9	3f10	3f11	3f12	3f13	3g5	3g6	3g7
3g8	3g9	3g10	3g11	3g12	3g8	3g9	3g13	3k4	3k5	3k6
3k7	4 d1	4d2	4e1	3k7	4e3					

6th to 7th ixl

6th c5	7a1	7a2	7a5	7f3	7f9	7g9	6k6	6L7

7th to 8th grade ixl

7th i1	7 i 7	8c1	8c3	8c6	8c7	8y7	8y8

7th Honors and 8th to Alg I

8B3	8B4	8C1	8C3	8C6	8C7	8C8	8Y1	8Y7	8Y8

Alg I to Geometry (A1 is algebra i grade level on ixl)

A1 b1	A1 b2	A1 g1	A1 i3	A1 i4	A1 i8	A1 t7	A1 T19	A1 U1 U 6	A1

Grade _Alg I_ to Grade _Geometry_ Summer Math Packet

Algebra 1

Solve each equation.

1) $-118 = 2n - 4(8n + 7)$

2) $-6(6r + 7) + 2r = -178$

3) $7(1 - 6m) = 343$

4) $3k - 6(7k - 7) = -153$

5) $139 = -8x - 5(x - 7)$

6) $3(7k - 4) = -180$

7) $4(-5x - 4) = 144$

8) $195 = -7n + 8(5 - 3n)$

9) $228 = 6(7a + 3)$

10) $-164 = 4(1 + 7x)$

Solve each proportion.

11) $\dfrac{5}{6} = \dfrac{n}{5}$

12) $\dfrac{6}{8} = \dfrac{x}{9}$

13) $\dfrac{5}{p} = \dfrac{8}{7}$

14) $\dfrac{v}{2} = \dfrac{4}{7}$

15) $\dfrac{8}{4} = \dfrac{3}{n}$

16) $\dfrac{a}{4} = \dfrac{8}{3}$

Sketch the graph of each line.

17) $5x - y = -5$

18) $3x - y = -4$

19) $4x + 3y = 3$

20) $x + 5y = 5$

Sketch the graph of each linear inequality.

21) $y > 3x + 2$

22) $y > \dfrac{6}{5}x - 2$

23) $y < \dfrac{2}{5}x$

24) $y > -\dfrac{3}{5}x + 4$

Sketch the solution to each system of inequalities.

25) $y > -3x - 3$
$y \le 3$

26) $y > 2x + 3$
$y \ge 2x - 1$

27) $y \le -x + 2$
$y \le -5x - 2$

28) $y \ge 4x - 2$
$y > x + 1$

Factor the common factor out of each expression.

29) $6k^8 + 3k^3 + 6k^2$

30) $24n^5 - 80n^4 - 16n^3$

31) $8n^2 + 8n - 18$

32) $-21p^4 + 28p^3 - 21p^2$

33) $-42p^2 + 7p + 70$

34) $36k^3 + 6k^2 + 30k$

Factor each completely.

35) $x^2 + x - 20$

36) $3p^2 + 9p - 120$

37) $x^2 - 17x + 72$

38) $v^2 - 3v - 18$

39) $b^2 + 3b - 70$

40) $p^2 + 5p$

41) $r^2 - r - 42$

42) $n^2 - 8n + 15$

43) $2b^2 - 8b - 120$

44) $n^2 + 13n + 36$

45) $15m^3 + 20m^2 - 18m - 24$

46) $4n^3 - 2n^2 + 14n - 7$

47) $35x^3 - 14x^2 + 20x - 8$

48) $32n^3 + 12n^2 - 8n - 3$

49) $56n^3 + 24n^2 - 35n - 15$

50) $2k^3 + 4k^2 + 7k + 14$