Remote Learning Packet

NB: Please keep all work produced this week. Details regarding how to turn in this work will be forthcoming.

April 6 - April 10, 2020

Course: Math

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Weekly Plan:

Monday, April 6
☐ Addition Speed Test
☐ Chapter 3 Self-Test B

Tuesday, April 7
☐ Subtraction Speed Test
☐ Chapter 4 Self-Test A

Wednesday, April 8
☐ Multiplication Speed Test
☐ Chapter 4 Self-Test B

Thursday, April 9
☐ Division Speed Test
☐ Chapter 5 Self-Test A

Friday, April 10
☐ Good Friday
☐ Enjoy your day off!

Statement of Academic Honesty

I affirm that the work completed from the packet is mine and that I completed it independently.

I affirm that, to the best of my knowledge, my child completed this work independently.

_____
Student Signature

_____
Parent Signature

Monday, April 6

This week, we will continue what we started last week, working on strengthening our basic math skills to prepare for the more difficult concepts that lie ahead during the 4th quarter. Start each day by taking the assigned speed test. Try to work as quickly and accurately as you can. **Time yourself,** and write your name, the date, and the time it took you to complete the test at the top of the page. **You do not need to stop after one minute like we do at school. Take as long as you need to finish the assigned speed test.** You will be taking one of these tests daily. The goal is to reduce the time it takes for you to take the test and increase your accuracy as well. **After completing the test**, grade it yourself with the provided answer key. This should take less than five minutes.

1. Your assigned speed test for today is addition.

2. Your second assignment is to complete Chapter 3 Self-Test B, found on page 97 of your book. If you're having difficulty remembering how to do the problems, **the lesson in which they were taught is posted in red brackets on the right side of the page.** Turn back to that lesson and review it for help. If you have reviewed the lesson and still don't understand, continue on to the next problem, until you have tried to work each one. Use lined loose-leaf paper and show all of your work. The provided answer key will give you an idea of how much work should be shown. Do not check the answer key until AFTER you have attempted each problem. **If you do the work on your own, especially without a calculator, your math skills will improve. If you don't, they won't!**

After completing the entire Self-Test, check your answers by reviewing the attached answer key. **It is IMPORTANT that you try each problem on your own first!** You will learn more this way, and that is of utmost importance. If you copy down the answers without trying the problems first, you will have more difficulty with new concepts. When looking at the answer key, put a piece of paper over the problems, and slide it down one line at a time. If you struggled with how to do a problem, see if just looking at the first step gives you enough help to complete the problem on your own. If not, slide the paper down one more line to see the next step. **Keep trying to do it on your own first!**

Important concepts for this self-test:
$(+)(+) = (+)$; $(+)(-) = (-)$; $(-)(-) = (+)$; $(+) \div (+) = (+)$; $(+) \div (-) = (-)$; $(-) \div (-) = (+)$
If you struggle with exponents, please review lesson 3-7 before trying to do questions #7-10.

Tuesday, April 7

1. Today's speed test is subtraction.

2. The second assignment is Chapter 4 Self-Test A from page 121. The same detailed instructions that were given in Monday's lesson plan apply to today's assignments. Remember that you must

have a common denominator before you add or subtract. Please review lesson 4-3 to see how to find the common denominator.

Wednesday, April 8

1. Today's speed test is multiplication.

2. The second assignment is Chapter 4 Self-Test B from page 135. The same detailed instructions that were given in Monday's lesson plan apply to today's assignments. Review lesson 4-7 before completing problems #13-20.

Thursday, April 2

1. Today's speed test is division.

2. The second assignment is Chapter 5 Self-Test A from page 158. The same detailed instructions that were given in Monday's lesson plan apply to today's assignments. *When the book says to "use transformations" to solve an equation for a variable, that is the same as saying "use inverse operations" to solve an equation for a variable.*

Friday, April 3

1. Today is Good Friday, which is a Great Hearts holiday. Enjoy your day off!

2 +3	8 +4	2 +9	7 +2	8 +8
4 +6	9 +5	7 +7	6 +8	3 +5
7 +8	4 +7	5 +7	2 +5	9 +6
3 +9	3 +3	7 +3	3 +4	8 +2
5 +4	6 +7	4 +2	9 +4	6 +3
6 +6	8 +9	5 +5	6 +2	9 +9
7 +9	4 +4	8 +3	5 +6	8 +5

5 - 2	12 - 4	11 - 9	9 - 7	16 - 8
10 - 6	14 - 5	14 - 7	14 - 6	8 - 3
15 - 7	11 - 4	12 - 7	7 - 2	15 - 6
12 - 9	6 - 3	10 - 3	7 - 4	10 - 8
9 - 4	13 - 7	6 - 2	13 - 9	9 - 3
12 - 6	17 - 9	10 - 5	8 - 6	18 - 9
16 - 9	8 - 4	11 - 3	11 - 6	13 - 5

2 x 3	8 x 4	2 x 9	7 x 2	8 x 8
4 x 6	9 x 5	7 x 7	6 x 8	3 x 5
7 x 8	4 x 7	5 x 7	2 x 5	9 x 6
3 x 9	3 x 3	7 x 3	3 x 4	8 x 2
5 x 4	6 x 7	4 x 2	9 x 4	6 x 3
6 x 6	8 x 9	5 x 5	6 x 2	9 x 9
7 x 9	4 x 4	8 x 3	5 x 6	8 x 5

6 ÷ 3	32 ÷ 4	18 ÷ 9	14 ÷ 2	64 ÷ 8
24 ÷ 6	45 ÷ 5	49 ÷ 7	48 ÷ 8	15 ÷ 5
56 ÷ 8	28 ÷ 7	35 ÷ 7	10 ÷ 5	54 ÷ 6
27 ÷ 9	9 ÷ 3	21 ÷ 3	12 ÷ 4	16 ÷ 2
20 ÷ 4	42 ÷7	8 ÷ 2	36 ÷ 4	18 ÷ 3
36 ÷ 6	72 ÷ 9	25 ÷ 5	12 ÷ 2	81 ÷ 9
63 ÷ 9	16 ÷ 4	24 ÷ 3	30 ÷ 6	40 ÷ 5

2	8	2	7	8
+3	+4	+9	+2	+8
5	12	11	9	16
4	9	7	6	3
+6	+5	+7	+8	+5
10	14	14	14	8
7	4	5	2	9
+8	+7	+7	+5	+6
15	11	12	7	15
3	3	7	3	8
+9	+3	+3	+4	+2
12	6	10	7	10
5	6	4	9	6
+4	+7	+2	+4	+3
9	13	6	13	9
6	8	5	6	9
+6	+9	+5	+2	+9
12	17	10	8	18
7	4	8	5	8
+9	+4	+3	+6	+5
16	8	11	11	13

5	12	11	9	16
- 2	- 4	- 9	- 7	- 8
3	8	2	2	8
10	14	14	14	8
- 6	- 5	- 7	- 6	- 3
4	9	7	8	5
15	11	12	7	15
- 7	- 4	- 7	- 2	- 6
8	7	5	5	9
12	6	10	7	10
- 9	- 3	- 3	- 4	- 8
3	3	7	3	2
9	13	6	13	9
- 4	- 7	- 2	- 9	- 3
5	6	4	4	6
12	17	10	8	18
- 6	- 9	- 5	- 6	- 9
6	8	5	2	9
16	8	11	11	13
- 9	- 4	- 3	- 6	- 5
7	4	8	5	8

2 x 3 = 6	8 x 4 = 32	2 x 9 = 18	7 x 2 = 14	8 x 8 = 64
4 x 6 = 24	9 x 5 = 45	7 x 7 = 49	6 x 8 = 48	3 x 5 = 15
7 x 8 = 56	4 x 7 = 28	5 x 7 = 35	2 x 5 = 10	9 x 6 = 54
3 x 9 = 27	3 x 3 = 9	7 x 3 = 21	3 x 4 = 12	8 x 2 = 16
5 x 4 = 20	6 x 7 = 42	4 x 2 = 8	9 x 4 = 36	6 x 3 = 18
6 x 6 = 36	8 x 9 = 72	5 x 5 = 25	6 x 2 = 12	9 x 9 = 81
7 x 9 = 63	4 x 4 = 16	8 x 3 = 24	5 x 6 = 30	8 x 5 = 40

6 ÷ 3 = 2	32 ÷ 4 = 8	18 ÷ 9 = 2	14 ÷ 2 = 7	64 ÷ 8 = 8
24 ÷ 6 = 4	45 ÷ 5 = 9	49 ÷ 7 = 7	48 ÷ 8 = 6	15 ÷ 5 = 3
56 ÷ 8 = 7	28 ÷ 7 = 4	35 ÷ 7 = 5	10 ÷ 5 = 2	54 ÷ 6 = 9
27 ÷ 9 = 3	9 ÷ 3 = 3	21 ÷ 3 = 7	12 ÷ 4 = 3	16 ÷ 2 = 8
20 ÷ 4 = 5	42 ÷ 7 = 6	8 ÷ 2 = 4	36 ÷ 4 = 9	18 ÷ 3 = 6
36 ÷ 6 = 6	72 ÷ 9 = 8	25 ÷ 5 = 5	12 ÷ 2 = 6	81 ÷ 9 = 9
63 ÷ 9 = 7	16 ÷ 4 = 4	24 ÷ 3 = 8	30 ÷ 6 = 5	40 ÷ 5 = 8

Pre-Algebra Chapter 3 Self-Test B, pg. 97, Answer Key

1. $4.2(-11.3) =$

$$\begin{array}{r} 11.3 \\ \times 4.2 \\ \hline 226 \\ 4520 \\ \hline 47.46 \end{array}$$

$\boxed{-47.46}$

2. $-6.7(20.4) =$

$$\begin{array}{r} {}^{2}20.4 \\ \times\ 6.7 \\ \hline 1428 \\ 12240 \\ \hline 136.68 \end{array}$$

$\boxed{-136.68}$

3. $7.5(-4.2)(-12) =$

$$\begin{array}{r|r} {}^{1}4.2 & {}^{1}31.50 \\ \times 7.5 & \times\ 12 \\ \hline 210 & 6300 \\ 2940 & 31500 \\ \hline 31.50 & 378.00 \end{array}$$

$\boxed{378}$

4. $121 \div (-11) = \boxed{-11}$ (I have that one memorized... no scratchwork!)

5. $-68.2 \div 2.2 =$

$$\begin{array}{r} 31. \\ 2.2\overline{)\,68.2.} \\ -66\ 0 \\ \hline 22 \\ -22 \\ \hline 0 \end{array}$$

$\boxed{-31}$

6. $-0.56 \div (-0.07) =$

$$\begin{array}{r} 8. \\ 0.07\overline{)\,0.56.} \\ -56 \\ \hline 0 \end{array}$$

$\boxed{8}$

7. $4^{-2} = \frac{1}{4^2} = \frac{1}{4 \cdot 4} = \boxed{\frac{1}{16}}$

8. $(-6)^{-3} = \frac{1}{(-6)^3} = \frac{1}{(-6)(-6)(-6)} =$

$$\begin{array}{r} {}^{3}{}^{3}6 \\ \times\ 6 \\ \hline 216 \end{array}$$

Multiplying 3 negativ gives you a negative

9. $7^5 \times 7^{-8} = 7^{5+(-8)} = 7^{-3} =$

$\frac{1}{7^3} = \frac{1}{7 \cdot 7 \cdot 7} = \boxed{\frac{1}{343}}$

10. $(-9)^{-2} \times (-9)^0 = (-9)^{-2+0}$

$(-9)^{-2} = \frac{1}{(-9)^2} = \frac{1}{(-9)(-9)} =$

Pre-Algebra Chapter 4, Self-Test A, pg. 121, Answer Key

1. $5 \times \frac{?}{} = \frac{5}{8}$

$5 \times \boxed{\frac{1}{8}} = \frac{5}{8}$

2. $3 \times \frac{?}{} = -1$

$3 \times \boxed{\left(-\frac{1}{3}\right)} = -1$

3. $7 \div 9 = \boxed{\frac{7}{9}}$

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

5. $\frac{16}{64} \div \frac{8}{8} = \frac{2}{8} \div 2 = \boxed{\frac{1}{4}}$

You could work this one many different ways!

$\frac{16}{64} \div \frac{16}{16} = \boxed{\frac{1}{4}}$

$\frac{16}{64} \div \frac{4}{4} = \frac{4}{16} \div \frac{4}{4} = \boxed{\frac{1}{4}}$

6. $-\frac{72}{30} \div \frac{3}{3} = -\frac{24}{10}$

$\frac{-24}{10} \div \frac{2}{2} = \frac{-12}{5}$

$\frac{-12}{5} = \boxed{-2\frac{2}{5}}$

$3\overline{)72}$ $\quad -60$ $\quad 12$ $\quad$ (24)

$5\overline{)-12}$ $\quad -10$ $\quad -2$ $\quad$ (2)

7. $\frac{32}{42} \div \frac{2}{2} = \boxed{\frac{16}{21}}$

8. $\frac{-71}{48}$ 71 is a prime number!

$48\overline{)71}$ $\quad -48$ $\quad 23$ $\quad$ (1)

$\boxed{-1\frac{23}{48}}$

9. $\frac{68}{16} \div \frac{4}{4} = \frac{17}{4}$

$4\overline{)17}$ $\quad -16$ $\quad 1$ $\quad$ (4)

$\boxed{4\frac{1}{4}}$

$4\overline{)68}$ $\quad -40$ $\quad 28$ $\quad$ (17)

10. $2\frac{1}{5}$ $\quad (2)(5)+1$

$10+1 = \boxed{\frac{11}{5}}$

11. $-3\frac{2}{3}$ $\quad (3)(3)+2 =$

$9+2 = \boxed{-\frac{11}{3}}$

12. $6\frac{4}{15}$ $\quad (6)(15)+4 =$

$90+4 = \boxed{\frac{94}{15}}$

$15 \times 6 = 90$ $\quad$ (3)

13. $1\frac{7}{12}$ $\quad (1)(12)+7$

$12+7 = \boxed{\frac{19}{12}}$

14. $-8\frac{5}{8}$ $\quad (8)(8)+5 =$

$64+5 = \boxed{-\frac{69}{8}}$

Pre-Algebra Chap 4 Self-Test A, pg. 121 Answer Key pg. 2

15. $\frac{7}{9}, \frac{7}{8}$

$\frac{7}{9} \times \frac{8}{8} = \boxed{\frac{56}{72}}$

$\frac{7}{8} \times \frac{9}{9} = \boxed{\frac{63}{72}}$

16. $-\frac{10}{49}, \frac{2}{21}$

$49 = 7 \cdot 7$
$21 = 3 \cdot 7$

$\begin{array}{r} 2 \\ 49 \\ \times 3 \\ \hline 147 \end{array}$

$LCD = 7 \cdot 7 \cdot 3 = 147$

$-\frac{10}{49} \cdot \frac{3}{3} = \boxed{\frac{-30}{147}}$

$\frac{2}{21} \cdot \frac{7}{7} = \boxed{\frac{14}{147}}$

17. $\frac{3}{50}, \frac{6}{225}$

$50 = 2 \cdot 5 \cdot 5$
$225 = 3 \cdot 3 \cdot 5 \cdot 5$

$LCD = 2 \cdot 3 \cdot 3 \cdot 5 \cdot 5 = 450!$

$\frac{3}{50} \cdot \frac{9}{9} = \boxed{\frac{27}{450}}$ $\quad \frac{6}{225} \cdot \frac{2}{2} = \boxed{\frac{12}{450}}$

18. $-\frac{8}{15}, -\frac{1}{30}$

$15 = 3 \cdot 5$
$LCD \rightarrow 30 = 2 \cdot 3 \cdot 5$

$-\frac{8}{15} \cdot \frac{2}{2} = \boxed{\frac{-16}{30}}$ $\quad \boxed{-\frac{1}{30}}$

19. $\frac{1}{3} + \frac{1}{4} =$

$\frac{1}{3} \cdot \frac{4}{4} = \frac{4}{12}$
$+ \frac{1}{4} \cdot \frac{3}{3} = \frac{3}{12}$

$\boxed{\frac{7}{12}}$

20. $\frac{1}{5} - \frac{1}{3}$

$\frac{1}{5} \cdot \frac{3}{3} = \frac{3}{15}$
$- \frac{1}{3} \cdot \frac{5}{5} = \frac{5}{13}$

$\boxed{\frac{-2}{13}}$

21. $\frac{2}{15} + \left(-\frac{5}{6}\right)$

$15 = 3 \cdot 5$
$6 = 2 \cdot 3$
$LCD = 30$

$\frac{2}{15} \cdot \frac{2}{2} = \frac{4}{30}$
$+ \left(-\frac{5}{6}\right) \cdot \frac{5}{5} = \frac{-25}{30}$

$\boxed{\frac{-7}{10}}$ $\quad \leftarrow \frac{-21}{30} \div \frac{3}{3}$

22. $16\frac{5}{8} - \frac{3}{4} =$

$\frac{3}{4} \cdot \frac{2}{2} = \frac{6}{8}$

$16\frac{5}{8} = 15\frac{13}{8}$
$-\frac{6}{8} = -\frac{6}{8}$

$\boxed{15\frac{7}{8}}$

23. $17\frac{1}{3} \cdot \frac{3}{3} = 17\frac{3}{9}$
$+ 5\frac{1}{9}$ $\quad + 5\frac{1}{9}$

$\boxed{22\frac{4}{9}}$

24. $-6\frac{3}{8} \cdot \frac{3}{3}$
$+ 2\frac{1}{6} \cdot \frac{4}{4}$

$-6\frac{9}{24}$
$+2\frac{4}{24}$

Remember: Take the difference

$\boxed{-4\frac{5}{24}}$

Pre-Algebra Chapter 4, Self-Test B, pg. 135, Answer Key

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

$\frac{3}{4} \times \frac{5}{1} = \frac{15}{4}$

$4\overline{)15}$ → 3, -12, 3

$\boxed{3\frac{3}{4}}$

2. $\frac{1}{8} \times \left(-\frac{1}{3}\right) = \boxed{-\frac{1}{24}}$

3. $\frac{28}{35} \times \frac{21}{14}$

$\frac{4}{5}\frac{\cancel{28}}{\cancel{35}} \times \frac{\cancel{21}}{\cancel{14}}\frac{3}{2}$

$\frac{2\cancel{4}}{5} \cdot \frac{3}{\cancel{2}_1} = \frac{6}{5} = \boxed{1\frac{1}{5}}$

4. $8\frac{3}{4} \times \frac{3}{16} =$

$\frac{35}{4} \cdot \frac{3}{16} = \frac{105}{64}$

$35 \times 3 = 105$

$64\overline{)105}$ → 1, -64, 41

$\boxed{1\frac{41}{64}}$

5. $-3\frac{1}{8} \times \left(-4\frac{4}{5}\right)$

$\frac{5}{1}\frac{25}{\cancel{8}} \times \left(-\frac{\cancel{24}}{5}\right)\frac{3}{1} = \boxed{15}$

6. $-2\frac{4}{7} \times 3\frac{1}{6}$

$-\frac{3}{\cancel{18}}\frac{\cancel{18}}{7} \times \frac{19}{\cancel{6}_1} = -\frac{57}{7}$

$19 \times 3 = 57$

$7\overline{)57}$ → 8, -56, 1

$\boxed{-8\frac{1}{7}}$

7. $\frac{5}{8} \div \frac{\cancel{10}^5}{\cancel{24}_{12}} = \frac{5}{8} \div \frac{5}{12} =$ Invert & multiply!

$\frac{1}{2}\frac{5}{\cancel{8}} \times \frac{\cancel{12}^3}{5_1} = \frac{3}{2} = \boxed{1\frac{1}{2}}$

8. $-\frac{11}{16} \div \frac{\cancel{44}}{\cancel{8}}\frac{11}{2} = \frac{-\cancel{11}}{\cancel{8}} \times \frac{2}{\cancel{11}_1} = \boxed{-\frac{1}{8}}$

9. $-\frac{18}{5} \div \left(-\frac{9}{35}\right) =$

$\frac{-\cancel{18}^2}{5_1} \times \frac{-35^7}{\cancel{9}_1} = \boxed{14}$

10. $1\frac{1}{4} \div 25 = \frac{5}{4} \div \frac{25}{1} =$

$\frac{1}{4}\frac{5}{} \times \frac{1}{\cancel{25}_5} = \boxed{\frac{1}{20}}$

11. $4\frac{1}{3} \div \left(-\frac{26}{27}\right) = \frac{13}{3} \div \left(-\frac{26}{27}\right) =$

$\frac{1}{3}\frac{\cancel{13}}{} \times \left(-\frac{27}{\cancel{26}}\right)\frac{9}{2} = -\frac{9}{2} = \boxed{-4\frac{1}{2}}$

Pre-Algebra Chapter 4, Self-Test B, pg. 135 Answer Key, pg. 2

12. $-4\frac{2}{7} \div \left(-2\frac{1}{14}\right) =$

$-\frac{30}{7} \div \left(-\frac{29}{14}\right) =$

$-\frac{30}{7} \times \left(-\frac{14}{29}\right)^2 = \frac{60}{29} = \boxed{2\frac{2}{29}}$

$29\overline{)60}$ R 2, -58, 2

13. $\frac{5}{8}$ $\quad$ $8\overline{)5.0}$

$\boxed{.625}$ $\quad$ -48, 20, -16, 40

14. $\frac{2}{11}$ $\quad$ $11\overline{)2.0}$

$\boxed{.\overline{18}}$ $\quad$ -11, 90, -88, 20

15. $-\frac{1}{80}$ $\quad$ $80\overline{)1.00}$

$\boxed{-0.0125}$ $\quad$ -80, 200, -160, 400, -400, 0

16. $\frac{7}{6}$ $\quad$ $6\overline{)7.0}$

$\boxed{1.1\overline{6}}$ $\quad$ -6, 10, -6, 40, -36

17. $0.875 = \frac{875}{1000} \div \frac{25}{25} = \frac{35}{40} \div \frac{5}{5} = \boxed{\frac{7}{8}}$

$25\overline{)875}$ R 125, -750, $25\overline{)125}$ R 0, 35

18. $1.\overline{6}$

$n = 1.\overline{6}$ Multiply both sides by 10.

$10n = 16.\overline{6}$

$-\ n = 1.\overline{6}$ Subtract

$9n = 15$

$\frac{9n}{9} = \frac{15}{9}$ Divide

$n = \frac{15}{9} \div \frac{3}{3} = \frac{5}{3} = \boxed{1\frac{2}{3}}$

19. $-2.213 = \boxed{-2\frac{213}{1000}}$

20. $0.2\overline{3}$

$n = 0.2\overline{3}$ Multiply both sides by 10

$10n = 2.\overline{3}3$

$-\ n = 0.2\overline{3}$ Subtract

$9n = 2.1$

$\frac{9n}{9} = \frac{2.1}{9}$ Divide

$n = \frac{2.1}{9} \times \frac{10}{10} = \frac{21}{90} = \boxed{\frac{7}{30}}$

Multiply by 10 & reduce

Pre-Algebra Chapter 5 Self-Test A, pg. 158

1. $35 + p = 47$
$-35 \quad -35$
$0 + p = 12$
$\boxed{p = 12}$

2. $\frac{-6a}{-6} = \frac{48}{-6}$
$\boxed{a = -8}$

3. $17 = 3x - 9 + 5x - 8$
Combine like terms!
$\boxed{17 = 8x - 17}$

4. $24 \div 3 = 5(m - 9)$
$\boxed{8 = 5m - 45}$

5. $x + 19 = 24$
$-19 \quad -19$
$\boxed{x = 5}$
subtract to isolate the variable

6. $36 = y - 11$
$+11 \quad +11$
$\boxed{47 = y}$
add to isolate the variable

7. $a + 14 = -9 - 3$ add like terms
$a + 14 = -12$
$-14 \quad -14$
$\boxed{a = -26}$
Subtract to isolate the variable

8. $\frac{-8q}{-8} = \frac{56}{-8}$
$\boxed{q = -7}$
Divide to isolate the variable

9. $\frac{18}{1}\cdot\frac{m}{18} = 9(18)$ multiple to isolate the variable
$\begin{array}{r} 18 \\ \times\ 9 \\ \hline 162 \end{array}$
$\boxed{m = 162}$

10. $(4)\frac{1}{4}d = 8(4)$ multiple by the reciprocal
$\boxed{d = 32}$

11. $27 = 2y - 13$ add first
$+13 \quad +13$
$\frac{40}{2} = \frac{2y}{2}$ then divide
$\boxed{y = 20}$

12. $\frac{-2(7 + 2b)}{-2} = \frac{52}{-2}$ divide first
$7 + 2b = -26$ then subtract
$-7 \quad -7$
$\frac{2b}{2} = \frac{-33}{2}$ divide again
$\boxed{b = \frac{-33}{2} \text{ or } -16\frac{1}{2}}$

13. $6n - 9 - 3n = n - 17$
$3n - 9 = n - 17$
$-n \quad -n$
$2n - 9 = -17$
$+9 \quad +9$
$\frac{2n}{2} = \frac{-8}{2}$
$\boxed{n = -4}$

① Combine like terms on the same side
② Get the variable on the same side
③ Get constants on the same side
④ Divide to isolate the variable