

Today's Homework

Brought to you by @TPSHomeworkBot — Friday, October 13, 2017

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6th Grade

Team 1:

- **Mr. Chevalier** Website not set up yet -- ask your teacher to set up "RSS".
- **Mr. Tucker** No post today.
- **Ms. O'Brien** No post today.

Team 2:

- **Mrs. Gagnon** Website not set up yet -- ask your teacher to set up "RSS".
- **Mrs. Dick** ELA: Reviewed "Action & State of Being Verbs" Worked on Elements of Literature: Impact of Setting (Exercise 1) Homework: "Action & Linking Verbs" (use the backside to help you!) GEOGRAPHY: Reviewed homework Read Chapter 3, Section 2 (p. 82-89) Homework: "Europe's Relative Location"
- **Mrs. Petroski-Lewis** No post today.

7th Grade

Seekers:

- **Math** Website not set up yet -- ask your teacher to set up "RSS".
- **Science** Website not set up yet -- ask your teacher to set up "RSS".
- **ELA** We will complete the ch. 7-14 quiz tomorrow. Be sure to have your notes organized and compete.
- **Geography**
Today in class we reviewed the chapter 2 vocab and worked on the chapter 2 poster.

Homework: Study! Ch. 2 Vocab Quiz tomorrow. Play Quizlet ([Link](#))!

****OPTIONAL:** Write your seven sentences ahead of time!**

Wonders:

- **Math** No post today.
- **Science** No post today.
- **ELA AGENDA:** 1.) Accountable Talk Session about The Open Window 2.) Wednesday's Bell Ringer, Thursday's Bell Ringer (here's your video), and Friday's Bell Ringer 3.) Quick meet-up with Sparkle Words groups to make some decisions 4.) Agenda Books **HOMEWORK:** 1.) Word Work due Thursday 2.) Sparkle Words Final Product due Thursday...
- **Geography** No post today.

8th Grade

Red Rising Stars:

- **Math**

Algebra

Finish chapter 2 review sheet for test tomorrow. See me after school today or in the morning for extra help if needed. See pictures of the answer key at the bottom of this post.

8th grade

Study the rules for transformations. See my link to quizlet on...

- **Science** No post today.
- **ELA** No post today.
- **Geography** No post today.

Silver Soaring Stars:

Name Kelly Date _____

Chapter 2 Review

Write the sentence as an inequality.

- The sum of twice a number n and 8 is at most 25. $2n + 8 \leq 25$
- The temperature t is at least 75° . $t \geq 75^\circ$
- The cost of a ticket c will be no more than \$26. $c \leq 26$

Write an inequality that represents the graph.

4. $x > 2$

5. $x \leq 3$

Solve the inequality.

- $n + 5n - 4$
 $4m \geq 4$
 $m \geq 1$
- $\frac{5}{4} + 6 \leq x + 8$
 $-\frac{5}{4} - \frac{3}{4}x \leq 2 - \frac{4}{3}$
 $x \geq \frac{3}{4}$
- $\frac{1}{2}h + 2 \geq \frac{1}{2}(h + 8)$
 $\frac{1}{2}h + 2 \geq \frac{1}{2}h + 4$
 $2 \geq 4$ (No solution)
- $4k - 3 \geq 3k + 2$
 $k \geq 5$
- $10 - 2(x - 1) \geq 6x + 10$
 $10 - 2x + 2 \geq 6x + 10$
 $-4x \geq 8$
 $x \leq -2$
- $-3y + 9 \geq 2y - 6 \geq 2$
 $4y \leq 15$
 $y \leq \frac{15}{4}$
- $-1 < c + 2 \leq 3$
 $-3 < c \leq 1$
- $3a + 1 < 11$ or $a < 3a - 12$
 $2a < 10$ or $-2a < -12$
 $a < 5$ or $a > 6$
- $32 \geq 16 - 4g \geq 12$
 $16 \geq -4g \geq 12$
 $-4 \geq g \geq -3$

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***Remember to write 2 cases, and make sure the absolute value is ISOLATED!
Also remember all final answers must be written as a compound inequality.

16. $|2x - 6| < 0$
absolute value will never be less than 0, so the answer is NO SOLUTION

17. $|7 - 2x| + 8 = \frac{7}{2}$
 $7 - 2x + 8 = \frac{7}{2}$
 $15 - 2x = \frac{7}{2}$
 $-2x = \frac{7}{2} - 15$
 $-2x = -\frac{23}{2}$
 $x = \frac{23}{4}$ or $x = \frac{23}{4}$

Write and graph a compound inequality that represents the numbers that are not solutions of the inequality represented by the graph shown.

17. $x > 3$

18. $x \leq -3$

19. Your goal this week is to run an average of 5 miles per day. The first 5 days you ran a total of 20 miles. You plan to run the same number of miles on the last days of the week. Write and solve an inequality that represents the number of miles you need to run on each of the last 2 days.

$2x + 20 \geq 35$
 $2x \geq 15$
 $x \geq 7.5$ miles

20. You need at least 30 cubic feet of sand to fill a sand box. Each bag contains 2.5 cubic feet of sand. Write and solve an inequality that represents the number of bags you need to buy.

$2.5b \geq 30$
 $b \geq 12$ bags

21. You are planning a school carnival. The equipment costs \$180 to rent. You plan to charge \$4.00 per ticket. You would like to have a profit of at least \$500. Write and solve an inequality that represents the number of tickets t that you need to sell. (Remember profit is the money you get to keep after you pay the bill.)

$4t + 180 \geq 500$
 $4t \geq 320$
 $t \geq 80$ tickets

22. You live 1 mile from the softball field and 2 miles from Sullivan Farms. Write a compound inequality to show the possible distances you could travel if you leave your house to go to the softball field for practice, go to Sullivan's for ice cream, and then go home.

$1 \leq d \leq 6$ mi

23. You want to earn at least \$150, but you know you can earn no more than \$225 this week. If you make \$15 an hour, write and solve a compound inequality to represent the number of hours, h , you need to work.

$150 \leq 15h \leq 225$
 $10 \leq h \leq 15$ hrs

Algebra 1 Assessment Book

- **Math**
- **Science** No post today.
- **ELA** No post today.
- **Geography** No post today.

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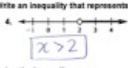
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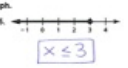
Chapter 2 Review

Write the sentence as an inequality.

- The sum of twice a number n and 8 is at most 25. $2n + 8 \leq 25$
- The temperature t is at least 75° . $t \geq 75^\circ$
- The cost of a ticket t will be no more than \$26. $t \leq \$26$

Write an inequality that represents the graph.

4.  $x > 2$

5.  $x < 3$

Solve the inequality.

- $a \geq 5a - 4$
 $-4a \geq -4$
 $a \leq 1$
- $\frac{1}{2}k + 2 \geq \frac{1}{2}(k + 8)$
 $\frac{1}{2}k + 2 \geq \frac{1}{2}k + 4$
 $2 \geq 4$ (No solution)
- $4x + 3 < 6x + 8$
 $-2x < 5$
 $x > -\frac{5}{2}$ (infinite solutions)

Solve the inequality. Graph the solution.

- $-3x + 9 \geq 2x - 6 > 2$
 $4 < 3$ (No solution)
- $-1 < c + 2 < 3$
 $-3 < c < 1$

Solve the inequality.



- $2a + 1 < 11$ or $a < 3a - 12$
 $2a < 10$ or $-2a < -12$
 $a < 5$ or $a > 6$
- $3x + 16 - 4g > 12$
 $3x - 4g > -4$
 $-4 < g < -3$

Algebra 1 Assessment Book 27

***Remember to write 2 cases, and make sure the absolute value is ISOLATED! Also remember all final answers must be written as a compound inequality.

- $|2x - 6| < 0$
absolute value will never be less than 0, so the answer is (No solution)
- $|7 - 2y| - \frac{4}{3} \geq \frac{1}{3}$
 $|7 - 2y| \geq \frac{5}{3}$
 $7 - 2y \geq \frac{5}{3}$ or $7 - 2y \leq -\frac{5}{3}$
 $-2y \geq \frac{5}{3} - 7$ or $-2y \leq -\frac{16}{3}$
 $y \leq \frac{5}{6} - \frac{7}{3}$ or $y \geq \frac{16}{6}$
 $y \leq -\frac{9}{6}$ or $y \geq \frac{8}{3}$

Write and graph a compound inequality that represents the numbers that are not solutions of the inequality represented by the graph shown.

-  $x < -3$ or $x > 4$
-  $x < -3$ or $x > 4$

19. Your goal this week is to run an average of 5 miles per day. The first 5 days you ran a total of 20 miles. You plan to run the same number of miles on the last days of the week. Write and solve an inequality that represents the number of miles, m , you need to run on each of the last 2 days.

$\frac{20 + 2m}{7} \geq 5$
 $20 + 2m \geq 35$
 $2m \geq 15$
 $m \geq 7.5$ (need to run at least 7.5 miles on each of the last 2 days)

20. You need at least 30 cubic feet of sand to fill a sand box. Each bag contains 2.5 cubic feet of sand. Write and solve an inequality that represents the number of bags, b , that you need to buy.

$2.5b \geq 30$
 $b \geq 12$ (need at least 12 bags of sand)

21. You are planning a school carnival. The equipment costs \$180 to rent. You plan to charge \$4.00 per ticket. You would like to have a profit of at least \$500. Write and solve an inequality that represents the number of tickets, t , that you need to sell. (Remember profit is the money you get to keep after you pay the bills.)

$4t - 180 \geq 500$
 $4t \geq 680$
 $t \geq 170$ (you need to sell at least 170 tickets)

22. You live 1 mile from the softball field and 2 miles from Sullivan Farms. Write a compound inequality to show the possible distances you could travel if you leave your house to go to the softball field for practice, go to Sullivan's for ice cream, and then go home.

$1 \leq d \leq 6$ (mi)

23. You want to earn at least \$150, but you know you can earn no more than \$225 this week. If you make \$15 an hour, write and solve a compound inequality to represent the number of hours, h , you need to work.

$150 \leq 15h \leq 225$
 $10 \leq h \leq 15$ (hrs)

Algebra 1 Assessment Book

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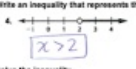
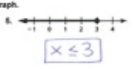
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Chapter 2 Review

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- The temperature t is at least 75° . $t \geq 75^\circ$
- The cost of a ticket c will be no more than \$26. $c \leq 26$

Write an inequality that represents the graph.

-  $x > 2$
-  $x \leq 3$


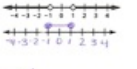
Solve the inequality.

- $m \geq 5m - 4$
 $-4m \geq -4$
 $m \leq 1$
- $\frac{1}{3} + 2 \geq \frac{1}{2}(h + 8)$
 $\frac{1}{3} + 2 \geq \frac{1}{2}h + 4$
 $2 \geq 4$ false
No solution.
- $4n + 3 < 4n + 8$
 $3 < 8$ True
Infinite Solutions
- $4n + 3 < 4n + 8$
 $3 < 8$ True
Infinite Solutions
- $10 - 2(x - 1) > 6x + 10$
 $10 - 2x + 2 > 6x + 10$
 $-2x + 12 > 6x + 10$
 $-8x > -2$
 $x < \frac{1}{4}$
- $-1 < c + 2 < 3$
 $-3 < c < 1$
- $4x + 20 \geq 35$
 $4x \geq 15$
 $x \geq 3.75$
- $2x + 15 \geq 25$
 $2x \geq 10$
 $x \geq 5$
- $4t + 180 \geq 500$
 $4t \geq 320$
 $t \geq 80$
- $10 \leq 15x \leq 225$
 $\frac{10}{15} \leq x \leq \frac{225}{15}$
 $\frac{2}{3} \leq x \leq 15$

Algebra 1 Assessment Book 27

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- **Science** No post today.
- **ELA** No post today.
- **Geography** No post today.

***Remember to write 2 cases, and make sure the absolute value is ISOLATED!
Also remember all final answers must be written as a compound inequality.

- $|2x - 6| < 0$
absolute value will never be less than 0, so the answer is (No solution)
- $|7 - 2y| - 8 \geq -3$
 $|7 - 2y| \geq 5$
 $7 - 2y \geq 5$ or $7 - 2y \leq -5$
 $-2y \geq -2$ or $-2y \leq -12$
 $y \leq 1$ or $y \geq 6$
-  $x > 2$
-  $x \leq 3$
- Your goal this week is to run an average of 5 miles per day. The first 5 days you ran a total of 20 miles. You plan to run the same number of miles on the last days of the week. Write and solve an inequality that represents the number of miles you need to run on each of the last 2 days.
 $2x + 20 \geq 35$
 $2x \geq 15$
 $x \geq 7.5$ miles
I need to run at least 7.5 miles on each of the last 2 days.
- You need at least 30 cubic feet of sand to fill a sand box. Each bag contains 2.5 cubic feet of sand. Write and solve an inequality that represents the number of bags that you need to buy.
 $2.5b \geq 30$
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 $4t \geq 320$
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you need to sell at least 80 tickets.
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 $1 \leq d \leq 6$ mi
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 $150 \leq 15h \leq 225$
 $10 \leq h \leq 15$ hrs
you need to work between 10 and 15 hrs.

Algebra 1 Assessment Book 27