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Consecutive Integer and Other Word Problems

Consecutive Integer Problems

- Find two consecutive integers whose sum is 117.
- Find two consecutive even integers whose sum is 94.
- Find three consecutive integers whose sum is 54.
- Find three consecutive integers whose sum is 105.
- Find four consecutive integers whose sum is 74.
- Find two consecutive even integers whose sum is 30.
- Find three consecutive even integers whose sum is -312.
- Find three consecutive odd integers whose sum is -219.
- The sum of three consecutive integers is 33 more than the least of the integers. Find the integers.
- The sum of three consecutive integers is 47 less than the least of the integers. Find the integers.
- The sum of four consecutive even integers equals seven times the greatest of the integers. Find the integers.
- The sum of four consecutive odd integers is three more than five times the least of the integers. Find the integers.

Geometry Problems

Complementary angles are two angles whose sum is 90 degrees.
 Supplementary angles are two angles whose sum is 180 degrees.
 The three angles in a triangle have a sum of 180 degrees.

- If the measure of one of two complementary angles is 12 less than twice the measure of the other, find the measure of each angle.
- If the measure of one of two complementary angles is 22 more than three times the measure of the other, find the measure of each angle.
- If the measure of one of two complementary angles is three more than twice the measure of the other, find the measure of each angle.

Balancing Equations #2

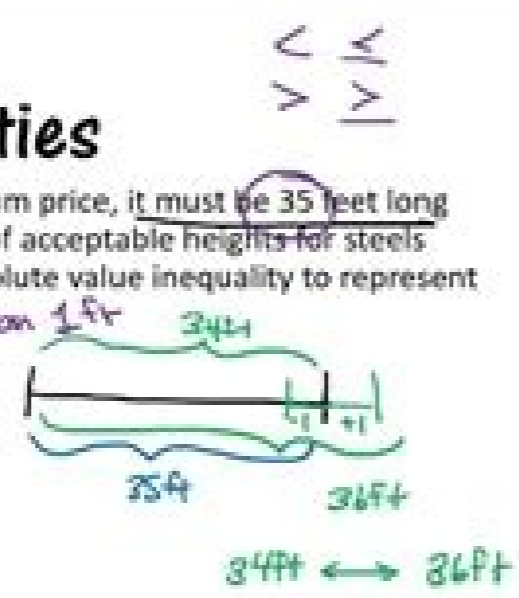
Name _____	Period _____
1. $\text{BCl}_3 + \text{P}_4 + \text{H}_2 \rightarrow \text{BP} + \text{HCl}$	_____
2. $\text{C}_2\text{H}_2\text{Cl}_4 + \text{Ca(OH)}_2 \rightarrow \text{C}_2\text{H}_2\text{Cl}_2 + \text{CaCl}_2 + \text{H}_2\text{O}$	_____
3. $(\text{NH}_4)_2\text{Cr}_2\text{O}_7 \rightarrow \text{N}_2 + \text{Cr}_2\text{O}_3 + \text{H}_2\text{O}$	_____
4. $\text{Zn}_3\text{Sb}_2 + \text{H}_2\text{O} \rightarrow \text{Zn(OH)}_2 + \text{SbH}_3$	_____
5. $\text{HClO}_4 + \text{P}_4\text{O}_{10} \rightarrow \text{H}_3\text{PO}_4 + \text{Cl}_2\text{O}_7$	_____
6. $\text{C}_6\text{H}_5\text{Cl} + \text{SiCl}_4 + \text{Na} \rightarrow (\text{C}_6\text{H}_5)_4\text{Si} + \text{NaCl}$	_____
7. $\text{Sb}_2\text{S}_3 + \text{HCl} \rightarrow \text{H}_3\text{SbCl}_6 + \text{H}_2\text{S}$	_____
8. $\text{IBr} + \text{NH}_3 \rightarrow \text{NI}_3 + \text{NH}_4\text{Br}$	_____
9. $\text{KrF}_2 + \text{H}_2\text{O} \rightarrow \text{Kr} + \text{O}_2 + \text{HF}$	_____
10. $\text{Na}_2\text{CO}_3 + \text{C} + \text{H}_2 \rightarrow \text{NaCH} + \text{CO}$	_____
11. $\text{Fe(CO)}_5 + \text{H}_2 \rightarrow \text{H}_2\text{Fe(CO)}_4 + \text{H}_2\text{CO}$	_____
E.C. $\text{H}_2\text{P}_4 + (\text{U}_2\text{H}_9)_2 + \text{HNO}_3 \rightarrow (\text{NH}_4)_3\text{PO}_4 + 12 \text{H}_2\text{O} + \text{U}_2\text{H}_4\text{O}_7 + \text{H}_2\text{L}$	_____

Absolute Value Inequalities

Before a piece of steel can be sold for its maximum price, it must be 35 feet long with an absolute error of 1 foot. Find the range of acceptable heights for steels that are to be sold at full price by writing an absolute value inequality to represent this situation, then solving it.

x = unknown
 x = height of steel

$$|x - 35| \leq 1$$

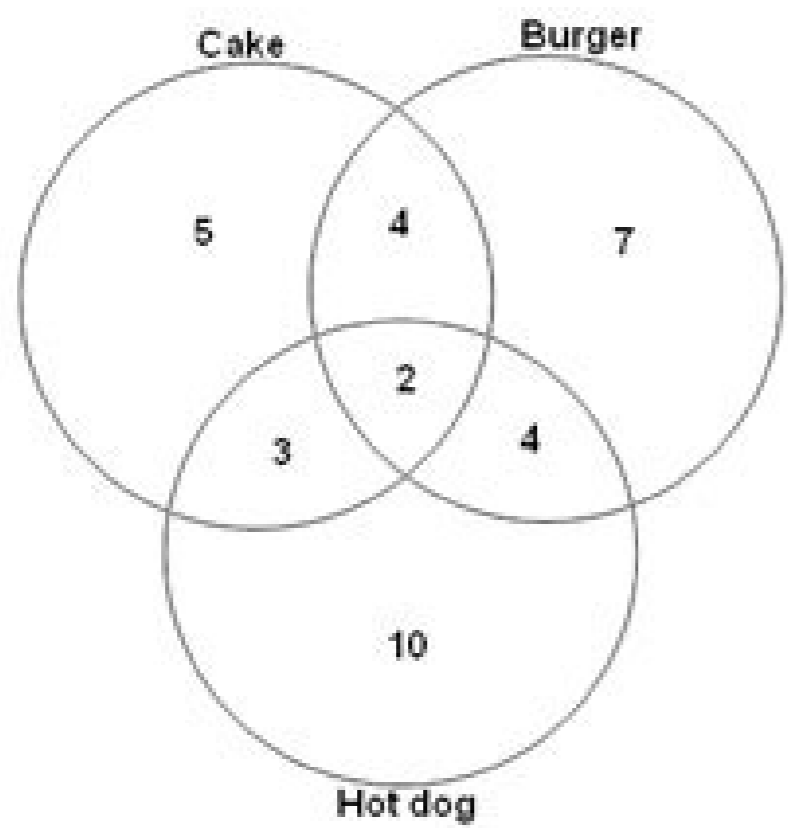


Student Name: _____

Score: _____

Answer the Questions Based on Venn Diagram

In a birthday party, cakes, burgers and hotdogs are served and it is represented by a Venn diagram below:



1. How many had hot dogs?

Answer: _____

2. How many had only cakes?

Answer: _____

3. How many had both cakes and burgers?

Answer: _____

4. How many had hot dog and cake but not burger?

Answer: _____

5. How many had at least two items?

Answer: _____

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If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. Translate word problems into absolute value expressions. To solve, you may need to transform them into compound inequalities. Finish!! Please allow access to the microphone Look at the top of your web browser. If you see a message asking for permission to access the microphone, please allow. Close These absolute value word problems in this lesson will explore real life situations that can be modeled by either an absolute value equation or an absolute value inequality. You may need to review the lesson about how to solve absolute value equations and absolute value inequalities. Problem #1:Your have money in your wallet, but you don't know the exact amount. When a friend asks you, you say that you have 50 dollars give or take 15. Use an absolute value equation to find least and biggest amount of money in your pocket? Solution:Let x be the possible amount of money in your pocket. $|x - 50| = 15$ Equation #1 $x - 50 = 15$ or $x - 50 = -15$ $x = 65$ or $x = 35$ The least amount is 35 dollars and the biggest amount is 65 dollars. Problem #2:The ideal diameter of a piece of metal rod is 2.50 inches with an allowable error of at most 0.05 inch. Which rod(s) will you pick? A. 2.5167 inches B. 2.4417 inches C. 2.484 inches D. 2.558 inches Solution: Let x be the actual diameter $|x - 2.50| \leq 0.05$ Equation #1 $x - 2.50 \leq 0.05$ or $x - 2.50 \geq -0.05$ $x \leq 2.55$ or $x \geq 2.45$ Putting it all together, we get $2.45 \leq x \leq 2.55$ We can pick A or C Problem #3:The ideal selling price of a toyota is 25000. The dealer allows this price to vary 5%. What is the lowest price this dealer can sell this Toyota??Solution:The little trick is to remember to take 5% of 25000 = $5 \times 25000 / 100 = 5 \times 250 = 1250$ $|x - 25000| \leq 1250$ Solving $-(x - 25000) \leq 1250$ will give us our answer $x - 25000 \geq -1250$ or $x \geq 23750$ The lowest price 23750 dollars Problem #4:Your personal trainer tells you that your weight loss should be between 35 and 45 pounds to win a free training session. Write an absolute value inequality that model your weight loss.Solution:The trick is to understand the meaning of absolute value in terms of distance. $|x - a| = d$ What does the absolute value equality above mean? It means to find 2 numbers that are located at the same distance d from a.For example, $|x - 1| = 3$ This means to find two numbers that are 3 units away from 1. These 2 numbers are -2 and 4 of course since $4 - 1 = 3$ and $1 - 2 = 3$ If you are given -2 and 4, you will need to work backward to find 1 and 3.The number that -2 and 4 are the same distance from is the number between -2 and 4. To find the number that is between -2 and 4, taking the average of -2 and 4 will suffice. To find the distance, just do $4 - 1 = 3$ We can do the same thing to find the absolute value inequality for 35 and 45 Since $45 - 35 = 10$, the distance is 5.The inequality is $|x - 40| < 5$ Solving absolute value inequalitiesAbsolute value word problems Aug 14, 22 07:14 AMHow you can become an actuary, one of the most rewarding careers on this planet. Find out what it takes!Read More Enjoy this page? Please pay it forward. Here's how... Would you prefer to share this page with others by linking to it?Click on the HTML link code below.Copy and paste it, adding a note of your own, into your blog, a Web page, forums, a blog comment, your Facebook account, or anywhere that someone would find this page valuable. Live worksheets > English > Math > Inequalities > Inequality Word Problems Finish!! Please allow access to the microphone Look at the top of your web browser. If you see a message asking for permission to access the microphone, please allow. Close

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