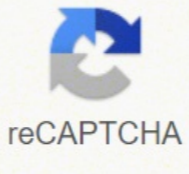




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Next

Name _____ Date _____ Class _____

Problem Solving

3.9 Adding and Subtracting Mixed Numbers

Write the correct answer.

- A female gray whale is $45\frac{1}{4}$ feet long. A male gray whale is $43\frac{1}{2}$ feet long. How much longer is the female than the male gray whale?
- At birth, a pilot whale is $4\frac{3}{5}$ feet long. A newborn gray whale is $15\frac{1}{4}$ feet long. How much longer is the newborn gray whale?

- A manatee weighs $\frac{1}{2}$ ton. A walrus weighs $1\frac{3}{4}$ tons. A narwhal weighs $1\frac{1}{2}$ tons. What is the total weight of all 3 animals?
- A bottie-nosed dolphin can leap $15\frac{1}{8}$ feet out of the water. The world record high jump for a human is $8\frac{1}{24}$ feet. How much higher can a dolphin leap than a human?

Choose the letter for the best answer.

- At a wildlife park, the killer whale show lasts $\frac{5}{8}$ of an hour. The guided tour of the park takes $2\frac{1}{2}$ hours. How long will it take to do both activities?
 A $3\frac{1}{8}$ hours
 B $2\frac{5}{8}$ hours
 C $3\frac{5}{8}$ hours
 D $1\frac{7}{8}$ hours
- Jeremy walks $3\frac{1}{2}$ miles while visiting a wildlife park. Shawna hikes a $4\frac{3}{8}$ -mile long nature trail. How much farther does Shawna walk?
 F $\frac{3}{8}$ of a mile
 G $\frac{5}{8}$ of a mile
 H $\frac{7}{8}$ of a mile
 J $1\frac{1}{8}$ of a mile
- Dog food comes in $5\frac{7}{8}$ -pound bags and $12\frac{3}{4}$ -pound bags. Find the total weight of 2 small and 1 large bags.
 A $22\frac{7}{8}$ pounds
 B $23\frac{1}{2}$ pounds
 C $24\frac{1}{2}$ pounds
 D $25\frac{3}{4}$ pounds
- A movie lasts $2\frac{1}{6}$ hours. A baseball game lasts $3\frac{2}{3}$ hours. How much longer does the game last?
 F $\frac{5}{6}$ hours
 G $1\frac{1}{6}$ hours
 H $1\frac{1}{3}$ hours
 J $1\frac{1}{2}$ hours

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Step 1: Rewrite each equation in order to have opposite terms!

$$\begin{aligned} 2 [3x + 3y = 11.25] &= 6x + 6y = 22.50 \\ -3 [4x + 2y = 10] &= -12x - 6y = -30 \end{aligned}$$

$$\begin{array}{r} 6x + 6y = 22.50 \\ -12x - 6y = -30 \\ \hline \end{array}$$

$$\begin{array}{r} -6x = -7.50 \\ -6 = -6 \end{array}$$

$$x = 1.25$$

Step 2: Now substitute the value for x (1.25) back into one of the equations and solve for y.

$$\begin{array}{ll} 4x + 2y = 10 & \\ 4(1.25) + 2y = 10 & \text{Substitute.} \\ 5 + 2y = 10 & \text{Simplify.} \\ 5 - 5 + 2y = 10 - 5 & \text{Subtract 5 from both sides.} \\ 2y = 5 & \text{Divide by 2.} \\ \frac{2y}{2} = \frac{5}{2} & \end{array}$$

$$y = 2.5$$

(1.25, 2.5) is the solution to this system of equations.

Step 3: Check:

$$\begin{array}{ll} 3x + 3y = 11.25 & 4x + 2y = 10 \\ 3(1.25) + 3(2.5) = 11.25 & 4(1.25) + 2(2.5) = 10 \\ 3.75 + 7.5 = 11.25 \text{ ☺} & 5 + 5 = 10 \text{ ☺} \end{array}$$

Multiplication Word Problems (A)

Solve each problem and show your work.

Regan's website had 7 links on each of 9 pages. How many links did she have on her website?

Robert donated \$5 to charity every month. How much did he donate in 7 months?

Every batch of Lucian's famous chocolate chip cookies takes 9 oz. of chocolate chips. For the school bake sale, he decided to make 8 batches. How many ounces of chocolate chips did he need?

Avianna and her boyfriend, Yehuda, rode the bus 6 times in a month and it cost \$4 for the two of them each time. If Avianna always paid, how much did it cost her for the month?

Distributive Property (A)

Use the distributive property to simply each expression.

$$2(4 + 9w) \quad -8(6x + 3)$$

$$-4(-4d - 5) \quad -6(8p + 3)$$

$$2(3v - 8) \quad (2 - 5m)(-5)$$

$$4(-6z + 4) \quad -9(n - 4)$$

$$(-5d + 1)(-2) \quad -4(9k + 9)$$

$$2(-5 - 7j) \quad (3b - 2)(-3)$$

$$-3(3 - 8j) \quad -(-5 - 3v)$$

$$-8(2 + 9v) \quad -9(8 - 2h)$$

$$(-5f + 8)4 \quad (7x - 8)(-1)$$

$$-(6 - 4p) \quad 9(8 + 5t)$$

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Name _____ Date _____

Integer Addition and Subtraction

$$1) (-464) + (-329) = \quad 2) (-92) + (171) =$$

$$3) (87) + (125) = \quad 4) (-147) + (232) =$$

$$5) (173) - (-153) = \quad 6) (-172) + (-68) =$$

$$7) (138) + (437) = \quad 8) (441) + (399) =$$

$$9) (-202) - (-169) = \quad 10) (-193) + (171) =$$

$$11) (-310) - (190) = \quad 12) (349) + (-255) =$$

$$13) (87) - (-97) = \quad 14) (-36) - (278) =$$

$$15) (266) + (-483) = \quad 16) (-72) - (14) =$$

$$17) (324) - (424) = \quad 18) (16) - (165) =$$

$$19) (168) + (315) = \quad 20) (314) - (464) =$$

$$21) (426) + (-265) = \quad 22) (422) + (-493) =$$

$$23) (287) + (-376) = \quad 24) (-323) + (298) =$$

$$25) (-157) - (115) = \quad 26) (-125) + (-63) =$$

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Consecutive integers word problems worksheet with answers. Adding and subtracting integers word problems worksheet with answers. Grade 7 integers word problems worksheet with answers. Subtracting integers word problems worksheet with answers. Integers word problems worksheet with answers pdf.

As we need the sequence of less to greater, so start from the left end point and move towards the right point. Write the number in the same sequence in which they appear. Write a positive or negative entire number for each situation. David rises a mountain 460 meters above sea level. Write a positive or negative entire number for each situation. Continue the number of numbers for six more numbers. Find a number that is. Students will order positive and negative numbers of lower than higher. Three problems arise. Find three consecutive numbers whose sum is 48. Find the entire number that follows the given condition. Three times an increase increase in four is the same as the number tier. The sum of two consecutive numbers is 27. What are the two numbers? What four consecutive numbers have a sum of 70? A number is twice as much one number. If the 12 of the higher number is subtracted, the result is 7 more than the minor number. Find the numbers eight times a number increases in 9 is 15 more than 7 times the number. Find the number. There are two ways to reach 20 to 38 and vice versa using the addition or its inverse. What is that? Name 2 numbers whose product is less than zero and whose sum is -25. There are two ways to obtain from 13 and 38 and vice versa using the sum or inverse. What is that? Give 2 numbers whose product is less than zero and whose sum is -12. There are two ways to obtain from 41 and 58 and vice versa using the sum or its inverse. What is that? Give 2 numbers whose product is less than zero and whose sum is -30. There are two ways to obtain 30 and 42 using the addition or its inverse. What is that? There are two ways to obtain from 6 and 14 using the addition or its inverse. What is that? There are two ways to obtain 12 and 24 using the addition or its inverse. What is that? There are two ways to obtain from 40 and 50 using the addition or its inverse. What is that? There are two ways to get from 7 and 18 the addition or its reverse. What's that? There are two ways to get from 6 and using the addition or its inverse. What's that? Represent the instruction with integers. The stock market climbed 789 points today. Represent the declaration with numbers. The stock market climbed 789 points today. Represent the declaration with integers. Write thirty-nine feet above the bottom of the building as an integer. The smallest number between 29 and 60. The stock market climbed 999 points today. Represent sentences with integers. Students will translate written statements into words into expressions using integers. Such as: The soccer player had a 50-yard win in the game. I love this one: 79 feet below sea level. The soccer player had a 32-yard gain on the play. The soccer player had a 70-yard gain on the play. Represent affirmations with integers: The opposite of $^{\circ}21,250$ Learn Maths with the best Free First Lesson! Exercise 1 A Roman emperor was born in B.C. and died in A.D. How many years did he live? The best math tutors available Exercise 2 A pump moves the oil into a well from m deep and raises it to a place of deposit m above ground level. How far does oil travel? Exercise 3 What is the temperature change that a customer experiences in a grocery store when he walks from the refrigerated vegetable section at $^{\circ}C$ to the frozen fish section that is set at $^{\circ}C$? Exercise 4 Air temperature in the atmosphere decreases at a rate of $^{\circ}C$. $^{\circ}C$ every meter. How high would a plain have to fly to experience a temperature of $^{\circ}C$? The temperature is $^{\circ}C$ at sea level. M solution of exercise 5 in a well, there are liters of water. At the top, there is a pipe that deposits L per minute into the well, and at the bottom, there is another pipe that removes L per minute from the same well. How many liters of water will there be in the well after minutes of running pipes? 1 The platform that connects tutors and students of students. Try this Multi-step word problems worksheet to practice with problems that are similar to examples 5 and 6 above. Dividing decimals may present a challenge for your child. Also, in the above problem, encourage your child to make connections between the 7.50 and the 3 as "seventy-five cents" and "three." Challenge Exercises Integer Word Problems. Search form. ... Do not enter commas in your answers. Hints: Always double check the sign of your answer. Does it make sense for the problem? When subtracting integers, be sure to subtract the smaller integer from the larger integer. The smaller integer is farther to the left on the number line. Integers worksheets, including addition and subtraction of integers, adding and subtracting multiple integers, and multiplication and division of integers. No login required. 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When finished with this set of worksheets, students will be able to solve word problems involving ratios, fractions, mixed numbers, and fractional parts of whole numbers. Create proportion worksheets to solve proportions or word problems (e.g. speed/distance or cost/amount problems). Available both as PDF and html files. Other options include using whole numbers only, numbers with a certain range, or numbers with a certain number of decimal digits. Question 5 Find solutions for the following problems: a. Both numbers are less than 10. The distance between the two numbers on the number line is 14. b. Both numbers are greater than -15 and less than 5 One number is 6 greater than the other number. c. The numbers are opposites. The distance between the two numbers on the number line is 18. These printable worksheets can be used to teach your students about the absolute value of integers. Absolute value is simply the distance an integer is from zero on a number line. 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