

Alex has \$13.00 to buy a stereo that costs \$24.00. How much more money does he need? Write the equation. Let n = the amount of money.

Use the axioms

n + 13 = 24of equality: n + 13 - 13 = 24 - 13*n* = 11

n + 13 = 24

Alex needs \$11.00 more.

Directions: Use the information on page 33 to help you solve these problems. Write an equation for each word problem using *n* and solve it.

1. Jimmy is 23 years younger than his mom who is 36 years old. How old is Jimmy?

Write the equation:

Solve for *n*:

Answer:

2. Albert has 15 CDs. Dianne has 2 more than 4 times as many CDs. How many CDs does Dianne have?

Write the equation:	
Solve for <i>n</i> :	
Answer:	

3. Joe's dad weighs 216 pounds. Joe weighs 122 pounds less than his dad. How much does Joe weigh?

Write the equation:	
Solve for <i>n</i> :	
Answer:	

4. Valerie took 25 shots in a basketball game. She had a 60% shooting percentage. How many shots did she make?

Write the equation:	
Solve for <i>n</i> :	
Answer:	

5. Sherrie's CD played for 22 minutes, which was 7 minutes longer than Matthew's CD. How long did Matthew's CD play? Write the equation:

Solve for <i>n</i> :	
Δnewer·	

6. Jerry read 1,145 words in five minutes. Jonathan read 316 words less in the same time period. How many words did Jonathan read?

Write the equation:	
Solve for <i>n</i> :	

Answer:

7. Jeremiah rode 88 minutes on his skateboard without falling or getting off. Nick rode only $\frac{3}{4}$ as long. How long did Nick ride? Write the equation: Solve for *n*: Answer:

Extension

Write a word problem comparing your age to another person's age. Word Problem: _____

Solve for *n*: _____

Answer:



Ronny's father is 24 years older than Ronny. Their combined age is 46. How old is Ronny? How old is Ronny's father?

Write the equation: Let x stand for Ronny's age. Let x + 24 stand for his dad's age.

Equation:

x + x + 24 = 46 2x + 24 = 46 2x + 24 - 24 = 46 - 24 2x = 22 $2x \div 2 = 22 \div 2$ x = 11

Ronny is 11. His father is 35.

Directions: Use the information on page 33 to help you solve these word problems. Write an equation for each problem using n and then solve the problem.

boy read?

Answer: ____

old is each boy?

 Sarah's mother is 28 years older than Sarah is. Their combined age is 50. How old is Sarah? How old is her mother?

Write the equation:	
Solve for <i>n</i> :	
Answer:	

2. Joe's dad weighs 140 pounds more than Joe. Their combined weight is 336 pounds. How much does Joe weigh? How much does his dad weigh?

Write the equation:	
Solve for <i>n</i> :	
Answer:	

 Norman is 4 times as old as his brother Nicholas. Their combined age is 15. How

4. In a one-minute time period, Joseph read 2

times as many words as John. Together they

read 669 words. How many words did each

 Write the equation:

 Solve for n:

Write the equation:	
Solve for <i>n</i> :	
Answer:	

3. Christina has \$22.00 more than 3 times as much money as Melissa has. Together they have \$122.00. How much money does each girl have?

Write the equation:	
Solve for <i>n</i> :	
Answer:	

6. George has 9 times as many stamps in his collection as Daniel has. Bryan has 2 times as many stamps as Daniel. The combined stamp collection of the three boys is 144. How many stamps does each boy have?

Write the equation:	
Solve for <i>n</i> :	
Answer:	

--- . .



Directions: Use the information on page 33 to help you solve these word problems. Write an equation for each problem using n and then solve the problem.

1.	Fred's dad is 25 years older than Fred. His mother is 23 years older than Fred. The comage of the three people is 93. How old is Fred? How old is each parent?		
	Write the equation:	Solve for <i>n</i> :	
	Answer:		
2.		scooter costs \$60.00 more than a skateboard. The uch is the skateboard? How much is the scooter?	
	Write the equation:	Solve for <i>n</i> :	
	Answer:		
3.	Jimmy's brother is 9 times as old as Jimmy. Jimmy. How old is each boy?	In 6 years, his brother will be only 3 times as old as	
	Write the equation:	Solve for <i>n</i> :	
	Answer:		
4.	Maybelle is 5 years younger than Jesse. Ellen is 2 years older than Jesse. Jeanne is 8 years older than Jesse. The combined age of the four children is 53.		
		How old is Maybelle?	
	How old is Ellen?	How old is Jeanne?	
	Write the equation:	Solve for <i>n</i> :	
	Answer:		
5.	Elsa had \$15.00 more than Joseph. Julian had \$10.00 less than Joseph. Martha had \$23.00 more than Joseph. Together they had \$108.00. How much money did each student have?		
	Write the equation:Answer:	Solve for <i>n</i> :	
6.	Christina had 2 times as much money as Melissa. Charmain had 4 times as much money as Melissa. Together they had \$105.00. How much money did each girl have?		
	Write the equation:	Solve for <i>n</i> :	
	Answer:		
7.	Matthew had 3 times as much money as Kristin. Joshua had \$10.00 less than Matthew Altogether they had \$74.00. How much money did each person have?		
	Write the equation:	Solve for <i>n</i> :	
	Answer:		
8.	Kenneth is 8 years older than Andrew. Billy younger than Andrew. The combined age of	t is 3 times as old as Andrew. Cameron is 5 years the four is 63. How old is each boy?	
	Write the equation:	Solve for <i>n</i> :	
	Answer:		