Percent Problems



Finding the Part



Example 3: 10 is 25% of what number?

75%

30

+10

Use double number lines to model 25% and 10.

100%

You've done a great job finding percents by converting them to decimals or fractions and multiplying. Today, we're going to learn about other methods that can help us answer percent problems







Example 4:

0%

0

25%

10

+10

50%

20

+10

Country music makes up 75% of Landon's music library. If he has downloaded 90 country music songs, how many songs thow many total does Landon have in his music library? part 90 (120 Songr 07, 257, 507, 757, 100% 75%-3=25%,90-3=30

into four parts.

Peyton spent 60% of her money to buy a new television. If the television cost \$300, how much money did she have?

c. What number 37% of 4	.00?)	,4	
.07 ^/1()0	7		28
- 00	100	$\left \right\rangle$	400
2800		x 4	
28.00	12	8)	

CHALLENGE!

In the first year of ownership, a new car can lose 20% of its value. If a car lost \$4,200 of value in the first year, how much did the car originally cost? (Examples 2 and the car originally cost?)

Independent Practice

Go online for Step-by-Step Solutions

Use double number lines to find the missing number. (Example 1)

1. 63 is 90% of what number?
2. 80 is 25% of what number?

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Write a percent proportion and solve each problem. (Examples 3 and 4)

13 22 is 44% of what number?

4. 450 is 75% of what number?

A store is having a sale where winter clothes are 60% of the original price. A sweater is on sale for \$30. What was the original price of the sweater? (Examples 2 and 5) 6. Kai calculates that he spends 15% of a school day in science class. If he spends 75 minutes in science class, how many minutes does Kai spend in school?

(Examples 2 and 5)

For Exercises 7–9, use the table.

- If you have 3 cups of pineapple juice, how many total cups of punch can you make?
- 8. How many cups of sorbet are used in 8 cups of punch?

Punch Recipe			
Ginger Ale	40%		
Orange Juice	25%		
Pineapple Juice	20%		
Sorbet	15%		