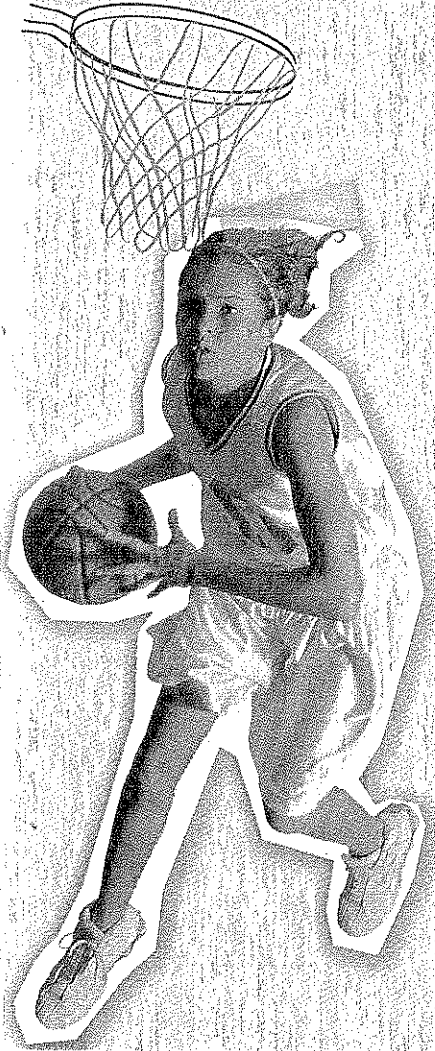


Solve Percent Problems

How do you compare part and whole?

fraction	ratio	percent
$\frac{2}{5}$ $\frac{\text{part}}{\text{whole}}$	Using the information in the first ratio, fill in the others. $\frac{2}{5}$	$\frac{2}{5} = \frac{\square}{100}$
What do you call the part?	\square to \square \square : \square	\square % of 5 = 2
The whole?		




Write a percent proportion and solve each problem.

3. 120 is 30% of what number?

4. 60 is 15% of what number?

5. 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 5)


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

 22 is 44% of what number?

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4. 450 is 75% of what number?

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 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)

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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)

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For Exercises 7–9, use the table.

7. If you have 3 cups of pineapple juice, how many total cups of punch can you make?


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8. How many cups of sorbet are used in 8 cups of punch?

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

20.  **Justify Conclusions** Action movies make up 85% of Devon's movie collection. If he has 20 movies, how many action movies are in Devon's collection? Explain your reasoning to a classmate.

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21. The drama club held a car wash on Saturday and Sunday. They washed a total of 60 cars. If they washed 40% of the cars on Sunday, how many cars did they wash on Sunday?

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22. A tiger can eat food that weighs up to 15% of its body weight. If a tiger can eat 75 pounds of food, how much does a tiger weigh?

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23. According to the school survey, 12% of the students at Rockwood Junior High School speak Spanish. There are 36 students at the school who speak Spanish. How many students were surveyed?

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