

Ratios into Proportions Notes


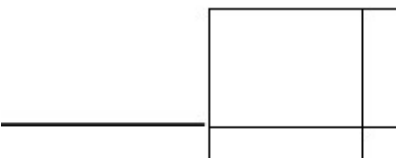

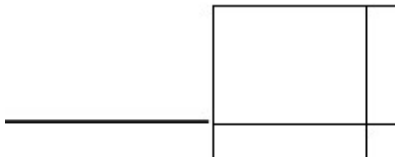

OBJECTIVE — SWBAT identify if two ratios are proportion. SWBAT solve for the variable in a proportion.



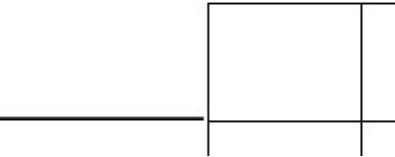

NOTES

- Read the word problem carefully and identify the two things that are being compared
- Set up a proportions box and label each row
- Re-read the problem and place the given information in the correct places of the proportion box
- Solve the proportion for the missing information

LET'S TRY...

Word Problem	Proportion	Solve & Sentence				
<p>At the 6th grade cookout, hamburgers and hot dogs were consumed in the ratio of 5 to 3. If 30 hamburgers were consumed, how many hot dogs were consumed?</p>	<p><u>Label</u> <u>Proportion box</u></p> <table border="1" data-bbox="727 772 932 926"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>					
<p>Chocolate milk is an option for lunch on Friday. There are three chocolate milks sold for every plain milk. If 40 containers of plain milk were sold on Friday, how many containers of chocolate milk were sold?</p>	<p><u>Label</u> <u>Proportion box</u></p> <table border="1" data-bbox="727 1157 932 1310"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>					
<p>At Audra's party, the boy-girl ratio was 5 to 3. If there were 45 boys, how many girls were there?</p>	<p><u>Label</u> <u>Proportion box</u></p> <table border="1" data-bbox="727 1612 932 1766"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>					

Word Problem	Proportion	Solve & Sentence
<p>1. A baseball player is hitting 2 home runs in every 28 times at bat. Suppose he continues at that rate. How many home runs will he hit in 560 times at bat?</p>	<p><u>Label</u> <u>Proporti</u></p> 	
<p>2. Mr. Shaw's car used 8 gallons in travelling 120 miles. At that rate, how many gallons will be used in travelling 360 miles?</p>	<p><u>Label</u> <u>Proporti</u></p> 	
<p>3. Mrs. Ledesma burned 96 calories during 8 minutes of jogging. How many calories would she burn during 14 minutes of jogging?</p>	<p><u>Label</u> <u>Proporti</u></p> 	
<p>4. An 9 pound turkey takes 27 minutes to cook. How many minutes would it take to cook an 18 pound turkey?</p>	<p><u>Label</u> <u>Proporti</u></p> 	
<p>5. Mrs. Katz wants to buy 12 pounds of rice crispy treats for her students. What would be the cost if 3 pounds of rice crispy treats cost \$4?</p>	<p><u>Label</u> <u>Proporti</u></p> 	

Word Problem	Proportion	Solve & Sentence
<p>6. In Mr. Hinsley's science test, Aleeza had a ratio of 5 to 4 correct answers to incorrect answers. If Aleeza got 12 answers wrong, how many did she answer correctly?</p>	<p><u>Label</u> <u>Proporti</u></p> 	
<p>7. At the cafeteria the ratio of pints of chocolate milk sold to pints of plain milk sold is 4 to 7. At this rate how many pints of plain milk will be sold if 100 pints of chocolate milk are sold?</p>	<p><u>Label</u> <u>Proporti</u></p> 	
<p>8. In Mrs. Jenkin's homeroom, 3 out of every 5 students would prefer to play PS4 than do their homework. If there are 20 students in her homeroom, how many prefer to play PS4 than do their homework?</p>	<p><u>Label</u> <u>Proporti</u></p> 	
<p>9. Mrs. Enloe bought 5 boxes of cookies for \$6.30. How much would it cost her to buy 8 boxes of cookies?</p>	<p><u>Label</u> <u>Proporti</u></p> 	
<p>10. Mackenzie read 40 pages of a book in 50 minutes. How many pages will she be able to read in 80 minutes?</p>	<p><u>Label</u> <u>Proporti</u></p> 