## For Full Credit, you MUST Show your work or Explain your thought process.

. Two numbers are in the ratio 3:8. Their sum is 44. What is the difference between the two numbers?

2. Terry cut a rope 35 inches long into two pieces in the ratio 3:4. What is the length of the longer piece?

3. Luis and Cameron shared some stickers in the ratio 5:2. Luis received 15 more stickers than Cameron. How many stickers were there altogether?

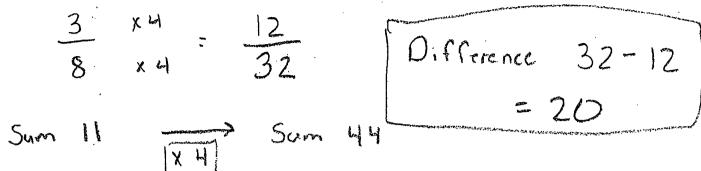
4. Armand cuts a piece of wire into two smaller pieces that are in a ratio 7:5. The shorter piece is 40 cm. What was the length of the original piece of wire?

5. There are 22 more boys than girls at a school play. The ratio of boys to girls is 7:5. How many students were there altogether?	
Good Luck! 6. A strand of wire 120 cm long is cut into several shorter pieces. Each of these pieces will be bent into squares. Each square will have a side equal to 2 cm. How many pieces of wire were there?	
7. The ratio of the area of a rectangle to the area of a triangle is 2:5. The rectangle has a length of 6 cm and a width of 4 cm. What is the area of the triangle?	
If You Dare!  8. A triangle has a perimeter of 90 cm. The lengths of the three sides are in the ratio 5:12:13. What is the length of the shortest side?	

Name	Key
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boys 7 x girls 5 x	11	55 7	132 students
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Zent	20 cm	long	=   5 pieces
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Area of Rect  Area of Tri	<b>.</b>	$\frac{2^41}{60}$	A=L x W A= Lo x 4 = 24
If You Dare! 8. A triangle has a perimeter of 9 is the length of the shortest side.	vea of	Triengle = 6 this of the three sides	
Shortest 5 x	3 <u>15</u>	The state of the s	Perimeter of this A is 30

[Longth of shortest side = 15 cm]