Name: ____

Unit 1 – Ratios and Proportional Relationships

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Math 8

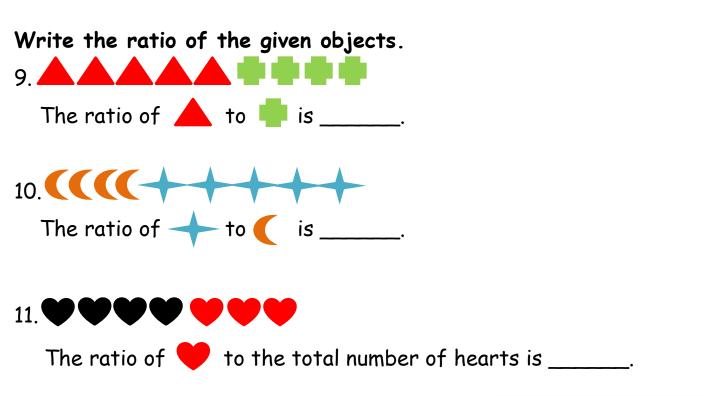
Identify what is asked.

- _____1. The comparison or relationship between two things.
- _____2. The name for the values in a ratio.
- _____3. A special ratio that compares quantities of different units.
- _____4. A rate where the second term is equal to 1.
- _____5. Ratios that have equal simplest form.

_____ 6. The value of x that will make the ratios 3:4 and x:8 equivalent.

_____7. The equality of two ratios or fractions.

_____8. It is a number expressed as a fraction of 100.



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Find the unknown term in the given equivalent ratios.

- 12. 21:24 = 28:x
- 13. 25:75 = x:3

14. x:48 = 10:40

Use the symbols (< , > , =) to compare the given pairs of ratios.

- 15. 36:12 _____ 12:4
- 16. 7:8 _____ 11:13
- 17. 14:63 _____ 4:18
- 18. 13:24 _____ 18:6
- 19. 16:6 _____ 14:4

Tell whether the given proportions are TRUE or FALSE.

_____ 20. 3:25 = 75:100

_____ 21. 12:16 = 24:48

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_____ 22. 11:44 = 8:32

Complete the table with the correct values.

	Fractions	Percent	Decimal
23.		36%	
24.			0.45
25.		23%	
26.			0.68
27.	$\frac{3}{4}$		
	4		
28.			0.32
29.	$\frac{4}{5}$		
	5		
30.		71%	

Convert the following units using RATIO.

- 31. 0.05 kilometers = _____ meter/s
- 32. 1000 pounds = _____ ton/s
- 33. 375 milliliters = _____ liter/s
- 34. 7.2 inches = _____ feet
- 35. 0.08 kilograms = ____ milligram/s

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Solve the following problems.

36. To make lemonade, 5 liters of water for every 8 lemons are needed. To make more lemonade, one needs 5 times the quantity. What is the ratio of water to lemonade of the new mixture?

37. If Tony can type 180 words in 3 minutes and Phil can type 210 words in 5 minutes, who types faster?

- 38. James went on a vacation and had spent $\frac{5}{7}$ of her money.
 - a. What percent of his money did she already spend?
 - b. What percent of his money does she have left?
 - c. Express the money he his left in fraction.

39. Chris has a piece of wood 1.2 meters long. If he cuts it into 3 equal equal parts, how long will each piece be in millimeters?