Name Date

MIXED RATIO PROBLEMS 6:3

1. **Bird Feeder Visitors** At a bird feeder, **24 sparrows** and **18 starlings** show up. What is the **simplified ratio** of sparrows to starlings?	
2. **Ocean Clean-Up Crew** A team collects trash from the beach in a ratio of **5 plastic pieces** to every **3 metal pieces**. If they manage to collect a total of **96 pieces** of plastic and metal trash, **how many pieces of each** do they collect? 	
3. **Let's Bake** A cookie recipe has a sugar to flour ratio of 3:4. a) If I want to bake several batches of cookies and use 12 cups of sugar, how much flour do I need? b) How much sugar is used for each cup of flour?	
4. **Rainforest Animals** In a rainforest exhibit, the ratio of **monkeys to parrots** is **3:4**. If the zoo wants to keep the same ratio but increase the number of monkeys to **24**, how many parrots should they have?	
5. **Pizza Party** Tyger is having a pizza party. He buys **7 pizza for every 5 guests**. a) How many guests will **42** pizza serve? b) How much pizza is he allowing **per person**?	
6) **Let's get mapping** A map has a scale of 5 inches : 4 miles. a) How many inches is 32 miles on the map? b) How many inches are there for each mile on the map?	

Name Date

MIXED RATIO PROBLEMS 6:3 ANSWERS

1. **Bird Feeder Visitors** At a bird feeder, **24 sparrows** and **18 starlings** show up. What is the **simplified ratio** of sparrows to starlings?	Sparrows to starlings ratio is 24:18 = 12:9 = 4:3
2. **Ocean Clean-Up Crew** A team collects trash from the beach in a ratio of **5 plastic pieces** to every **3 metal pieces**. If they manage to collect a total of **96 pieces** of plastic and metal trash, **how many pieces of each** do they collect? 	5 Plastic : 3 metal 8 pieces of trash 96 ÷ 8 = 12 lots 5 x 12 = 60 3 x 12 = 36 60 plastic : 36 metal
3. **Let's Bake** A cookie recipe has a sugar to flour ratio of 3:4. a) If I want to bake several batches of cookies and use 12 cups of sugar, how much flour do I need? b) How much sugar is used for each cup of flour?	a) 3 sugar : 4 flour → multiply by 4 = 12 sugar : 16 flour We need 16 cups of flour. b) 3:4 = ¾ : 1 ¾ cup of sugar per cup of flour
4. **Rainforest Animals** In a rainforest exhibit, the ratio of **monkeys to parrots** is **3:4**. If the zoo wants to keep the same ratio but increase the number of monkeys to **24**, how many parrots should they have?	3 monkeys : 4 parrots ➔ Multiply by 8 24 monkeys : 32 parrots They need 32 parrots.
5. **Pizza Party** Tyger is having a pizza party. He buys **7 pizza for every 5 guests**. a) How many guests will **42** pizza serve? b) How much pizza is he allowing **per person**?	a) 7 pizza : 5 guests ➔ Multiply by 6 42 pizza : 30 guests It will serve 30 guests. b) 7:5 = $^7/_5$: 1 There will be $^7/_5$ (or 1 ⅖) pizza per guest
6) **Let's get mapping** A map has a scale of 5 inches : 4 miles. a) How many inches is 32 miles on the map? b) How many inches are there for each mile on the map?	a) 5 in : 4 miles → multiply by 8 40 in : 32 miles 32 miles is 40 inches b) 5:4 = $^5/_4$: 1 There will be 1 ¼ inches for each mile.

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