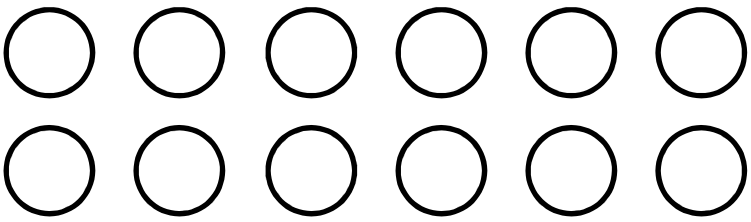
Sixth Grade Review 9: **All Fractions** Name:

Barbequed Lima Beans [makes 10 servings]			
Lima Beans	$1\frac{1}{2}$ pounds	Ketchup	$1\frac{1}{2}$ cups
Water	$\frac{47}{8}$ cups	Tabasco Sauce	13 drops
Chopped Onions	$2\frac{1}{4}$ cups	Dark corn syrup	$\frac{5}{6}$ of a cup
Brown Sugar	$1\frac{3}{8}$ cups	Bacon	$\frac{20}{32}$ of a pound

1.	If Mrs. Fauatea mixes the chopped onions, brown sugar, and ketchup together, how many total cups of ingredients does she have?	
2.	Which of the following is equivalent to the amount of chopped onions in the recipe? A. $\frac{6}{4}$ because $1\times2+4=6$. C. $\frac{9}{4}$ because $4\times2+1=9$. B. $\frac{7}{4}$ because $4+2+1=7$. D. $\frac{17}{4}$ because $4^2+1=17$.	
3.	Convert the cups of water to a mixed number.	
4.	Mr. Underwood accidentally pours $5\frac{1}{8}$ cups of ketchup into the recipe. How much extra ketchup did Mr. Underwood add?	
5.	Convert the pounds of bacon into a simplified fraction.	
6.	Which of the following is an NOT an equivalent fraction to the amount of dark corn syrup listed above? A. $\frac{10}{12}$ B. $\frac{25}{36}$ C. $\frac{50}{60}$ D. $\frac{35}{42}$	
7.	Mrs. Atkins loves lima beans so she adds $\frac{5}{8}$ of a pound of extra lima beans to the recipe. Draw a picture below to represent $x=1\frac{1}{2}+\frac{5}{8}$, the amount of lima beans in her recipe.  Each rectangle = 1 pound	

Seven Layer Bars Party Size [60 servings]			
Melted Butter	$\frac{10}{4}$ cups	Flaked Coconut	$5\frac{1}{4}$ cups
Graham Cracker Crumbs	$5\frac{1}{3}$ cups	Chopped Nuts	$5\frac{2}{5}$ cups
Chocolate Chips	$5\frac{3}{8}$ cups	Sweetened Condensed Milk	$5\frac{1}{6}$ cups
Butterscotch Chips	$5\frac{3}{10}$ cups		

8.	***Graham Cracker Crumbs, Chocolate Chips, Butterscotch Chips*** List the ingredients from least to greatest.			
9.	Mr. Wright is trying to determine to total amount of flaked coconut and condensed milk in the recipe. Which of the following would represent Mr. Wright's determination of the least common denominator? A. 96 B. 48 C. 24 D. 12			
10.	***Flaked Coconut, Chopped Nuts, Sweetened Condensed Milk*** List the ingredients from greatest to least.			
11.	Write the amount of melted butter in simplest form.			
12.	Which of the following improper fractions is greater than the amount of graham cracker crumbs listed above? A. $\frac{30}{6}$ B. $\frac{18}{4}$ C. $\frac{17}{3}$ D. $\frac{51}{10}$			
13.	Mr. Mangham combines the chocolate chips and flaked coconut together and then throws $\frac{7}{8}$ of a cup of the combination at Mrs. McKnight. How many cups of chocolate chips and coconut are left? A. $11\frac{1}{2}$ B. $10\frac{1}{4}$ C. 1 D. $9\frac{3}{4}$			
14.	Each circle below represents one cup. Draw a picture below to represent total amount of chopped nuts plus butterscotch chips in the recipe. 			

Equivalent Fractions – Write three equivalent fractions or mixed numbers.

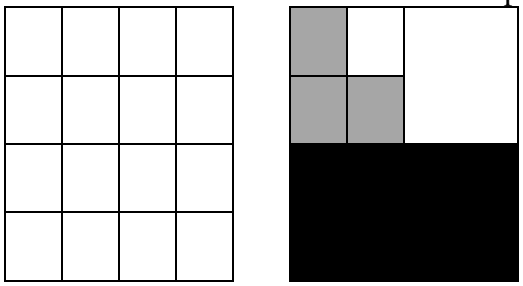
15.	$\frac{6}{7}$				16.	$7\frac{2}{3}$			

Simplest Form – Write the following fractions in simplest form.

17.	$\frac{12}{18}$		18.	$\frac{24}{60}$	

Order the fractions from greatest to least.

19.	$\frac{8}{9}, \frac{8}{5}, \frac{9}{10}$				20.	$\frac{4}{7}, \frac{3}{8}, \frac{7}{11}$			

21.	Dr. Giffin loves to read comic books. She ordered 20 comic books from Amazon.com and each book cost between \$3.75 and \$5.75. Which of the following is a reasonable total cost of the books, not including tax? A. \$60 C. \$120 B. \$95 D. \$155	
22.	Mrs. Snow bought cupcakes and apple juice for her favorite science class. There were 16 cupcakes per container and 6 apple juices per box. What is the smallest number of packages of each item that Mrs. Snow could have bought and still have the same number of cupcakes and juice? A. 6 cupcakes containers and 16 apple juice boxes B. 4 cupcakes containers and 10 apple juice boxes C. 2 cupcakes containers and 5 apple juice boxes D. 3 cupcakes containers and 8 apple juice boxes	
23.	Mr. Mangham's has a blank photo album as shown in the picture on the left. He then placed photos in the shaded areas as shown in the picture on the right.  Which of the following equations represents the fraction of the page NOT used so far for the photos? A. $1-\left(\frac{1}{2}+\frac{3}{16}\right)=\frac{5}{16}$ C. $\left(1-\frac{1}{2}\right)+\frac{3}{16}=\frac{11}{16}$ B. $\frac{1}{2}+\frac{3}{16}=\frac{7}{16}$ D. $1-\left(\frac{1}{2}+\frac{3}{4}\right)=\frac{2}{6}$	

24. The table below shows how long it takes each person to make 10 free throws.

Larry Bird	15 seconds
Magic Johnson	25 seconds
Michael Jordan	20 seconds

If a buzzer goes off each time a person reaches 10 more free throws, when is the first time all three buzzers go off at the same moment?

A. 5 seconds
B. 100 seconds
C. 300 seconds
D. 1500 seconds

25. Mrs. Buckmaster has a huge pot which holds 8 gallons. She pours in $2\frac{4}{5}$ gallons of water and $3\frac{1}{2}$ gallons of chicken broth. Does she have enough room to add the one gallon of beef broth she wants to add?

A. Yes, because $8-\left(2\frac{4}{5}+3\frac{1}{2}\right)=1\frac{7}{10}$ and $1\frac{7}{10}>1$.

B. No, because $\left(3\frac{1}{2}-2\frac{4}{5}\right)=\frac{7}{10}$ and $\frac{7}{10}<1$.

C. Yes, because $2\frac{4}{5}+3\frac{1}{2}=6\frac{3}{10}$ and $6\frac{3}{10}>1$.

D. No, because $2\frac{4}{5}+3\frac{1}{2}=6\frac{3}{10}$ and $6\frac{3}{10}<8$.

26. If Mr. Mangham goes running 18 days during the month of April (30 days), what fraction of the days in the month did he run? First, write this fraction in simplest form. Second, complete the diagram to model your answer.

27. What is a common characteristic of the fractions in either Set A or Set B?

Set A

$\frac{2}{7}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{2}{5}$

Set B

$\frac{4}{5}$ $\frac{7}{10}$ $\frac{2}{9}$ $\frac{6}{11}$

A. All fractions in Set B are greater than one-half.
B. All fractions in Set B are less than three-fourths.
C. All fractions in Set A are improper.
D. All fractions in Set A are less than one-half.