

Name: _____

Due Date: _____

TOPIC 9 STUDY GUIDE

1. The table shows water fowl that Liam counted at the lake. What fraction of the water fowl listed are Mallards? Show your work.

Water Fowl Type	Number
Canadian Geese	5
Crane	3
Mallards	12

2. Replace each addend with 0, $\frac{1}{2}$, or 1. What is the estimate of the sum of $\frac{5}{8} + \frac{8}{9}$?
3. Which of the following pairs of numbers has a least common multiple of 24?
- 4 and 6
 - 3 and 8
 - 2 and 12
 - 3 and 6
4. What number makes the equation true?
- $$\frac{7}{12} = \frac{?}{24}$$
5. Benjamin and his sister shared a large sandwich. Benjamin ate $\frac{3}{5}$ of the sandwich and his sister ate $\frac{1}{7}$ of the sandwich. What is the best estimate of how much more Benjamin ate than his sister?
- $\frac{1}{2} - 0 = \frac{1}{2}$
 - $\frac{1}{2} - \frac{1}{2} = 0$
 - $1 - \frac{1}{2} = \frac{1}{2}$
 - $1 - 0 = 1$

Name: _____

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6. Which renames $\frac{5}{12}$ and $\frac{3}{8}$ using a common denominator?

- a. $\frac{5}{12}$ and $\frac{3}{12}$
- b. $\frac{10}{10}$ and $\frac{6}{6}$
- c. $\frac{16}{10}$ and $\frac{12}{12}$
- d. $\frac{10}{24}$ and $\frac{9}{24}$

7. Teri and her friends bought a party-size sandwich that was $\frac{7}{9}$ yard long. They ate $\frac{2}{3}$ of a yard. What part of a yard was left?

Use the table for 8 and 9.

Item	Number in Package
Paper	50
Pencils	12
Erasers	10

8. The table lists sizes of packages of school supplies. What is the smallest number of pencils and erasers that Mrs. Deng can buy so that she will have the same number of each? Show your work.

9. Mr. Vail purchased 1 package of each kind of school supply. What fraction of the items he purchased are pencils? Write your answer in simplest form.

10. Sandra drove for $\frac{1}{3}$ hour to get to the store. Then she drove $\frac{1}{5}$ hour to get to the library. What fraction of an hour did Sandra drive in all? Show your work.

11. A store has the floor plan shown. Estimate the part of the store used for sporting goods. Explain how you decided.

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Women's	
Boys'	Girls'
Sporting Goods	
bath	Men's

12. A green snake is $\frac{8}{9}$ yard long. A garter snake is $\frac{13}{18}$ yard long. How much longer is the green snake than the garter? Show your work.

13. Of the balls shown, $\frac{1}{3}$ are basketballs and $\frac{1}{15}$ are soccer balls. What fraction of the balls are either basketballs or soccer balls?



14. What fraction of the balls above are baseballs? Write the fraction in simplest form.

15. Tony is kayaking down a $\frac{4}{5}$ mile stream. He has already traveled $\frac{1}{4}$ of a mile. How much farther does he need to travel? Draw a picture and write an equation to solve.

16. Pablo and Jamie bought two pizzas that were the same size. Jamie ate $\frac{1}{4}$ of her pizza. Pablo ate $\frac{1}{3}$. How much more pizza did Pablo eat than Jamie? How much of a pizza did they eat in all?

