

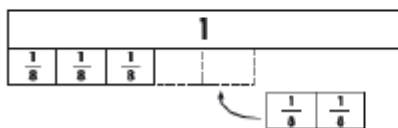
Topic 12 Study Guide

1. At work, Lyle spends $\frac{3}{8}$ of his time at a computer and $\frac{1}{8}$ of his time on the telephone. What fraction of his time at work does Lyle spend on the computer and on the telephone?

2. Lamont is driving to visit his grandmother. In the first hour, he drove $\frac{3}{10}$ of the way, and in the second hour he drove another $\frac{3}{10}$ of the way. What fraction of the total distance to his grandmother's house did Lamont travel in the first two hours?

3. Fred sprinted $\frac{1}{8}$ mile, jogged $\frac{3}{8}$ mile, and then sprinted another $\frac{3}{8}$ mile. What was his total distance?

4. Use the model below. What is the sum of $\frac{3}{8}$ and $\frac{2}{8}$?



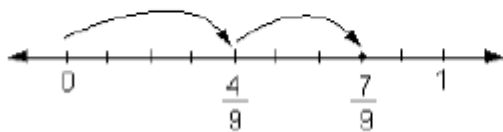
5. John walked $\frac{3}{10}$ mile from his home to the library. From the library he walked $\frac{5}{10}$ mile to the grocery store, and then walked $\frac{1}{10}$ mile home. What distance did he walk in all?

6. Olivia spent $\frac{7}{12}$ of her lunch hour shopping. What fraction of her lunch hour remained for her to eat lunch?

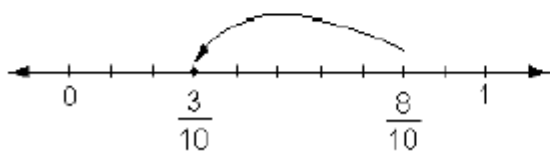
7. Haley did $\frac{8}{12}$ of her math homework on Friday night. When her mother checked the work Haley had done, she found that $\frac{3}{12}$ of the homework was incorrect. What fraction of the homework was correct on Friday night?

8. Gary painted $\frac{9}{11}$ of a wall. Later Gary's mother told him that $\frac{3}{11}$ of the wall needed to be repainted. How much of the wall did NOT need to be repainted?

9. Which equation is represented on the number line?



10. Ms. Carter had $\frac{8}{10}$ of a package of construction paper in her cabinet. She distributed $\frac{5}{10}$ of a package of paper to her students for their art projects. What fraction of a package of paper did she have left?



11. What is $3\frac{5}{8}$ as an improper fraction?

12.

What is the difference of $2\frac{3}{8} - 1\frac{7}{8}$?

13.

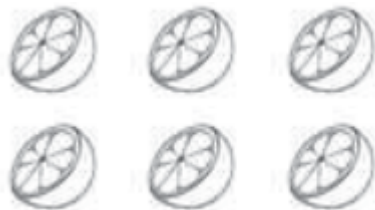
Tim read $5\frac{2}{8}$ books in March. In April, he read $4\frac{5}{8}$ books. How many more books did Tim read in March than in April?

14.

Use the picture at the right to write a multiplication equation with $\frac{1}{2}$ as a factor. Explain how you found the answer.



15. Write an multiplication equation that describes the picture.



16. Write an multiplication equation that describes the picture.



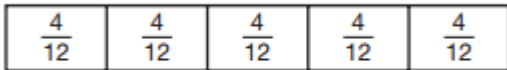
17. Write an multiplication equation that describes the picture.



18. Write an multiplication equation that describes the picture.



19. Write an multiplication equation that describes the picture.



20. Audrey uses $\frac{5}{8}$ cup of fruit in each smoothie she makes. She makes 6 smoothies to share with her friends. How many cups of fruit does she have?

21. Simplify the following fractions.

$$\frac{6}{12} =$$

$$\frac{6}{8} =$$

$$\frac{9}{12} =$$

$$\frac{5}{10} =$$

22. Write a mixed number for each improper fraction.

$$\frac{14}{10} =$$

$$\frac{15}{12} =$$

$$\frac{9}{4} =$$

$$\frac{27}{8} =$$

23. What is the total measure of an average man's brain and heart in kilograms (kg)?

Vital Organ Measures

Average woman's brain	$1\frac{3}{10}$ kg	$2\frac{8}{10}$ lb
Average man's brain	$1\frac{4}{10}$ kg	3 lb
Average human heart	$\frac{3}{10}$ kg	$\frac{7}{10}$ lb

24. What is the total weight of an average woman's brain and heart in pounds (lbs)?

Vital Organ Measures

Average woman's brain	$1\frac{3}{10}$ kg	$2\frac{8}{10}$ lb
Average man's brain	$1\frac{4}{10}$ kg	3 lb
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Name: _____

25. $7\frac{2}{6} + 8\frac{5}{6}$

$$4\frac{3}{4} + 2\frac{2}{4}$$

26. $3\frac{5}{6} + 4\frac{3}{6}$

$$6\frac{2}{5} + 3\frac{4}{5}$$

27. Use $<$, $>$, or $=$ to compare the two fractions.

$$\frac{4}{10} \quad \bigcirc \quad \frac{4}{5}$$

$$\frac{4}{6} \quad \bigcirc \quad \frac{2}{3}$$