

Chapter Review

1. Hannah runs for $\frac{1}{6}$ hour in class and $\frac{5}{8}$ hour at home. About how long does she run in all? Choose the correct benchmarks and sum.

1a. Hannah runs for about _____ hour in class.

0
 $\frac{1}{2}$
1

1b. Hannah runs for about _____ hour at home.

0
 $\frac{1}{2}$
1

1c. Hannah runs for about _____ hour(s) in all.

$\frac{1}{2}$
1
 $1\frac{1}{2}$
2

2. Deval makes a batch of oat bars using $\frac{1}{2}$ cup of oats and $\frac{1}{4}$ cup of flour. What is the total number of cups of oats and flour Deval needs for three batches? Explain how you can use fraction strips to find the answer.

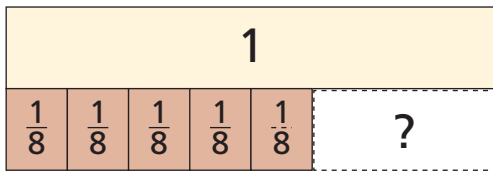
3. Kendra bought $\frac{3}{8}$ pound of peaches and $\frac{15}{16}$ pound of grapes for a fruit salad.

3a. Rounded to the closest benchmark, Kendra bought about pound of peaches.

3b. Rounded to the closest benchmark, Kendra bought about pound of grapes.

3c. Kendra has about pounds of fruit for the fruit salad.

4. Use fraction strips to find the difference.



$$\frac{5}{8} - \frac{1}{8} = \underline{\hspace{2cm}}$$

5. Write $\frac{2}{5}$ and $\frac{1}{3}$ as equivalent fractions using a common denominator.

and

6. Subtract.

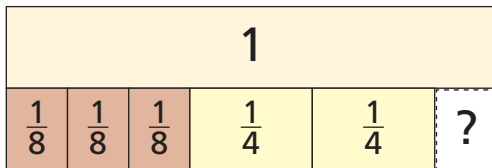
$$\frac{9}{10} - \frac{1}{5} = \underline{\hspace{2cm}}$$

Name _____

7. The shaded part of the diagram shows what Genie has left from a meter of string. She will use $\frac{3}{5}$ meter of string to make bracelets. She wants to determine how much of the string she will have remaining after making the bracelets. For problems 7a–7c, select True or False for each statement.



- 7a. To determine how much string will be left after making the bracelets, Genie must find $\frac{9}{10} - \frac{3}{5}$. ☐ True ☐ False
- 7b. The fractions $\frac{3}{5}$ and $\frac{6}{10}$ are equivalent. ☐ True ☐ False
- 7c. Genie will have $\frac{1}{5}$ meter of string left. ☐ True ☐ False
8. Use fraction strips to find the sum.



$$\frac{3}{8} + \frac{2}{4} = \underline{\hspace{2cm}}$$

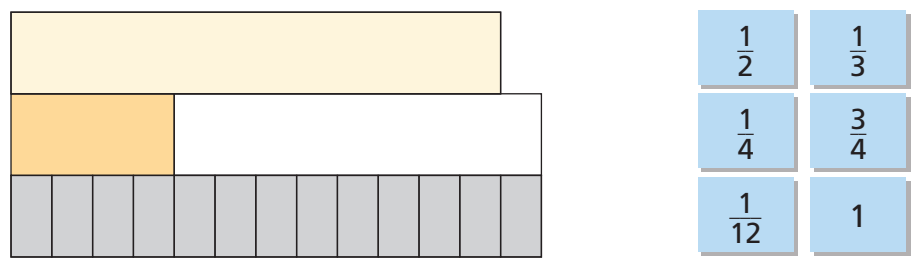
9. Write the unknown number for each \blacksquare .

$$\frac{1}{3}, \frac{5}{\blacksquare}$$

common denominator: 24

$$\blacksquare = \underline{\hspace{2cm}}$$

10. Jeffrey walked $\frac{1}{3}$ mile on Monday and jogged $\frac{3}{4}$ mile on Tuesday. How far did he walk and jog on Monday and Tuesday combined? Use the tiles to complete the fraction strip model to show how you found your answer. The fractions may be used more than once or not at all.



_____ mile(s)

11. In a science experiment, Sahil uses $\frac{9}{12}$ liter of the blue solution and $\frac{5}{8}$ liter of the red solution.
- For each part, identify the common denominator, show your work, and then write your answer in simplest terms.

Part A

How much solution did Sahil use in all?

common denominator: _____

_____ liters of solution

Part B

How much more of the blue solution than the red solution did Sahil use?

common denominator: _____

_____ liter more

Name _____

12. Alana bought $\frac{3}{8}$ pound of Swiss cheese and $\frac{1}{4}$ pound of American cheese. Which pairs of fractions are equivalent to the amounts Alana bought? Mark all that apply.

- (A) $\frac{24}{64}$ and $\frac{8}{64}$ (C) $\frac{12}{32}$ and $\frac{6}{32}$
 (B) $\frac{6}{16}$ and $\frac{4}{16}$ (D) $\frac{15}{40}$ and $\frac{10}{40}$

13. Four students spent time working the booth for the math club at the school carnival. The table shows how much time each student worked the booth.

Working the Booth	
Student	Time (in hours)
Axel	$\frac{1}{2}$
Keaton	$\frac{3}{4}$
Makai	$\frac{9}{10}$
Shea	$\frac{7}{12}$

Match each pair of students with how much time they worked the booth in all.

- Keaton and Shea • $1\frac{1}{12}$ hours
 Axel and Makai • $1\frac{1}{3}$ hours
 Shea and Axel • $1\frac{2}{5}$ hours

14. For problems 14a–14d, tell which expressions will have a sum that is a fraction greater than 1. Write the expression and its sum in the correct box.

14a. $\frac{1}{3} + \frac{2}{4}$

14c. $\frac{2}{3} + \frac{11}{12}$

14b. $\frac{3}{4} + \frac{7}{8}$

14d. $\frac{1}{5} + \frac{2}{3}$

Sum is less than 1.

Sum is greater than 1.

15. Jose used $\frac{3}{4}$ cup of avocado oil and $\frac{2}{3}$ cup of balsamic vinegar to make salad dressing. For problems 15a–15c, select True or False for each statement.

15a. A common denominator of the fractions is 12. ☐ True ☐ False

15b. The amount of avocado oil can be written as $\frac{15}{24}$ cup. ☐ True ☐ False

15c. Jose made $1\frac{5}{12}$ cups of salad dressing. ☐ True ☐ False

16. Tom exercised $\frac{4}{5}$ hour on Monday and $\frac{5}{6}$ hour on Tuesday.

Part A

Complete the calculations below to write equivalent fractions with a common denominator.

$$\frac{4}{5} = \frac{4 \times \boxed{}}{5 \times \boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{5}{6} = \frac{5 \times \boxed{}}{6 \times \boxed{}} = \frac{\boxed{}}{\boxed{}}$$

Part B

How much time did Tom spend exercising on Monday and Tuesday combined? Explain how you found your answer.

Part C

How much longer did Tom spend exercising on Tuesday than he spent on Monday? Explain how you found your answer.