

MODULE 8

Fractions in Real Life

ANSWER KEY

Canada

EMPLOYMENT
ONTARIO

Ontario



Exercise 1A

Write the fraction for the shaded part.

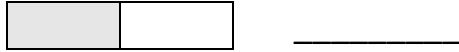
1.



2.



3.



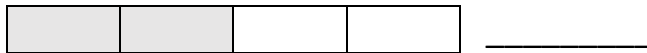
4.



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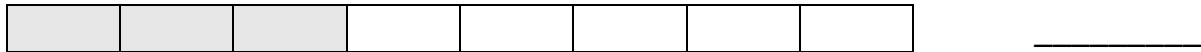
6.



Exercise 1B

What fraction is shaded?

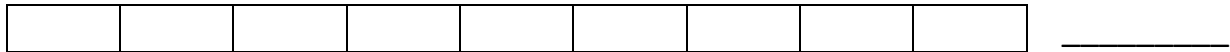
7.



8.



9.



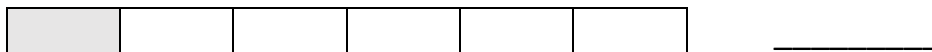
10.



11.



12.



Exercise 1C**Write the fraction.**

13. two thirds _____

14. One fifth _____

15. seventh eighths _____

16. One half _____

17. three fourths _____

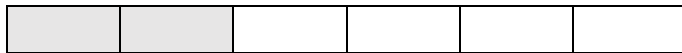
18. Nine tenths _____

Exercise 1D**Complete.**

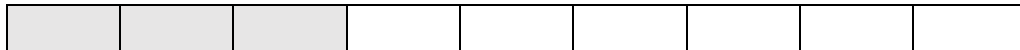
19.

 $\frac{1}{2}$ are shaded. $\frac{1}{2}$ of 8 is _____

20.

 $\frac{1}{3}$ are shaded. $\frac{1}{3}$ of 6 is _____

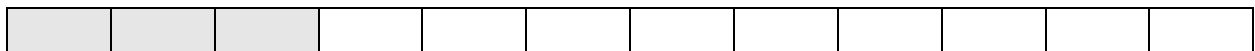
21.

 $\frac{1}{3}$ are shaded. $\frac{1}{3}$ of 9 is _____

22.

 $\frac{1}{3}$ are shaded. $\frac{1}{3}$ of 12 is _____

23.

 $\frac{1}{4}$ are shaded. $\frac{1}{4}$ of 12 is _____

24.

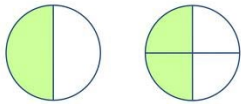


$\frac{1}{2}$ are shaded. $\frac{1}{2}$ of 6 is _____

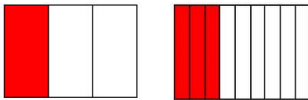
Exercise 2A

Write a number sentence to show equivalent fractions.

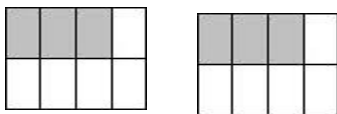
1.



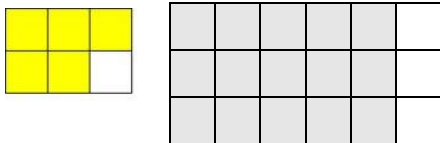
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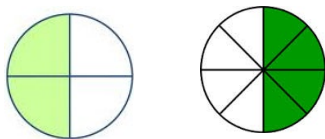
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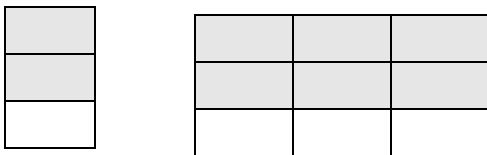
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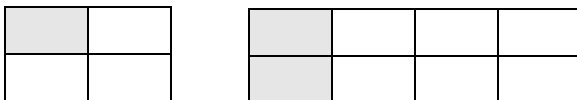
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6.



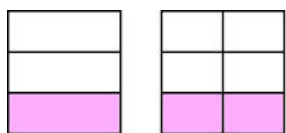
7.



8.



9.



Exercise 2B

Write the equivalent fraction.

10.	$\frac{1}{6} = \frac{1 \times 2}{6 \times 2} =$	11.	$\frac{1}{2} = \frac{1 \times 6}{2 \times 6} =$	12.	$\frac{1}{8} = \frac{1 \times 4}{8 \times 4} =$
13.	$\frac{3}{7} = \frac{3 \times 2}{7 \times 2} =$	14.	$\frac{3}{10} = \frac{3 \times 5}{10 \times 5} =$	15.	$\frac{1}{7} = \frac{1 \times 2}{7 \times 2} =$
16.	$\frac{2}{9} = \frac{2 \times 2}{9 \times 2} =$	17.	$\frac{5}{6} = \frac{5 \times 3}{6 \times 3} =$	18.	$\frac{6}{7} = \frac{6 \times 4}{7 \times 4} =$

Exercise 3A

1. $\frac{2}{4} =$ _____ 2. $\frac{2}{6} =$ _____ 3. $\frac{4}{8} =$ _____

Exercise 3B

Complete.

4.	$\frac{3}{9} = \frac{3 \div 3}{9 \div 3} =$	5.	$\frac{10}{15} = \frac{10 \div 5}{15 \div 5} =$	6.	$\frac{4}{10} = \frac{4 \div 2}{10 \div 2} =$
7.	$\frac{6}{8} = \frac{6 \div 2}{8 \div 2} =$	8.	$\frac{5}{20} = \frac{5 \div 5}{20 \div 5} =$	9.	$\frac{8}{12} = \frac{8 \div 4}{12 \div 4} =$
10.	$\frac{12}{24} = \frac{12 \div 12}{24 \div 12} =$	11.	$\frac{7}{14} = \frac{7 \div 7}{14 \div 7} =$	12.	$\frac{8}{8} = \frac{8 \div 8}{8 \div 8} =$

Exercise 3C

Complete.

13.	$\frac{8}{16} = \frac{\quad}{2}$	14.	$\frac{4}{16} = \frac{\quad}{4}$	15.	$\frac{7}{28} = \frac{1}{\quad}$
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16.	$\frac{8}{20} = \frac{\quad}{5}$	17.	$\frac{2}{10} = \frac{1}{\quad}$	18.	$\frac{3}{15} = \frac{\quad}{5}$
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Exercise 4A

Write the fraction as a mixed number in simplest form or as a whole number.

1. $11/8 = \underline{\quad}$

2. $16/6 = \underline{\quad}$

3. $20/10 = \underline{\quad}$

4. $13/9 = \underline{\quad}$

Exercise 4B

Write the fraction as a whole number.

5. $20/5 = \underline{\quad}$

6. $14/7 = \underline{\quad}$

7. $40/8 = \underline{\quad}$

8. $35/7 = \underline{\quad}$

Exercise 4C

Write the fraction as a mixed number in simplest form.

9. $8/5 =$

10. $11/5 =$

11. $10/3 =$

12. $20/6 =$

13. $22/9 =$

14. $13/7 =$

15. $14/4 =$

16. $12/8 =$

Exercise 4D

Solve.

17. Yolanda needs 16 grapefruit halves to serve to her guests. How many grapefruits does she need?

18. Ricky picked 22 peaches. Each small carton holds 6 peaches. Write a mixed number to show how many cartons Ricky filled with peaches.

Exercise 5A

Add. Write the sum in simplest form.

1. $\frac{1}{4} + \frac{2}{4} =$

2. $\frac{1}{6} + \frac{3}{6} =$

3. $\frac{2}{7} + \frac{1}{7} =$

4. $\frac{3}{8} + \frac{2}{8} =$

5. $\frac{1}{8} + \frac{5}{8} =$

6. $\frac{1}{8} + \frac{2}{8} =$

7. $\frac{3}{9} + \frac{2}{9} =$

8. $\frac{3}{9} + \frac{3}{9} =$

9. $\frac{5}{9} + \frac{3}{9} =$

Exercise 5B

Add. Write the sum in simplest form.

10. $\frac{1}{3} + \frac{2}{3} =$

11. $\frac{2}{8} + \frac{4}{8} =$

12. $\frac{1}{8} + \frac{6}{8} =$

13. $\frac{5}{12} + \frac{3}{12} =$

14. $\frac{1}{10} + \frac{4}{10} =$

15. $\frac{3}{9} + \frac{4}{9} =$

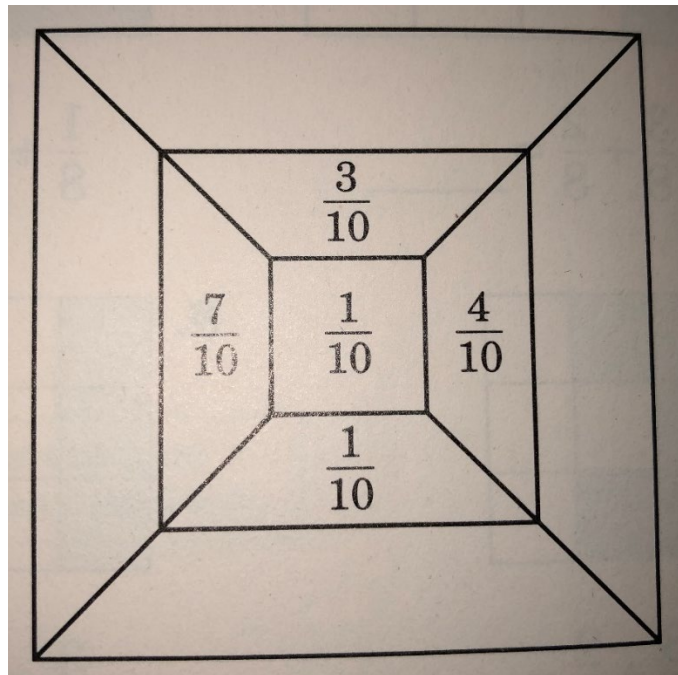
Exercise 5C
Solve.

16. Jessica ate $\frac{1}{8}$ of the apple pie on Monday. Roger ate $\frac{2}{8}$ of the pie on Tuesday. How much of the pie did they eat?

17. Rosa walked $\frac{3}{10}$ km on Saturday and $\frac{5}{10}$ km on Sunday. How far did Rosa walk altogether?

MENTAL MATH

Add the fraction in the middle to each fraction in the outer ring. Use mental math. Write each sum in simplest form.



Exercise 6A**Subtract. Write the difference in simplest form.**

1. $\frac{4}{10} - \frac{2}{10} =$

2. $\frac{8}{9} - \frac{2}{9} =$

3. $\frac{3}{4} - \frac{2}{4} =$

4. $\frac{5}{8} - \frac{1}{8} =$

5. $\frac{11}{12} - \frac{3}{12} =$

6. $\frac{11}{16} - \frac{7}{16} =$

7. $\frac{4}{5} - \frac{2}{5} =$

8. $\frac{9}{12} - \frac{4}{12} =$

9. $\frac{7}{10} - \frac{2}{10} =$

Exercise 6B**Subtract. Write the difference in simplest form.**

10. $\frac{4}{5} - \frac{2}{5} =$

11. $\frac{5}{6} - \frac{2}{6} =$

12. $\frac{7}{12} - \frac{2}{12} =$

13. $\frac{10}{12} - \frac{2}{12} =$

14. $\frac{8}{15} - \frac{3}{15} =$

15. $\frac{15}{16} - \frac{9}{16} =$

Exercise 6C**Solve.**

16. Joanne walked $\frac{11}{12}$ km on Monday and $\frac{5}{12}$ km on Tuesday. How much farther did she walk on Monday?

17. Barry's stock rose $\frac{7}{16}$ on Thursday and $\frac{11}{16}$ on Friday. How much more did his stock rise on Friday than on Thursday?

18. Katy has a piece of embroidery thread that is $\frac{7}{12}$ m long. She cuts the thread into two pieces. One piece measures $\frac{3}{12}$ m long. What is the length of the other piece?

Exercise 7A

Compare. Write $<$, $>$, or $=$.

1. $\frac{4}{6}$ _____ $\frac{1}{3}$ 2. $\frac{3}{4}$ _____ $\frac{3}{8}$ 3. $\frac{1}{3}$ _____ $\frac{4}{9}$

Exercise 7B

Compare. Write $<$, $>$, or $=$. Use the number line.

4. $\frac{2}{6}$ _____ $\frac{1}{3}$ 5. $\frac{5}{6}$ _____ $\frac{2}{3}$

6. $\frac{1}{2}$ _____ $\frac{1}{6}$ 7. $\frac{1}{3}$ _____ $\frac{6}{6}$

Exercise 7C

Compare. Write $<$, $>$, or $=$.

8. $\frac{3}{4}$ _____ $\frac{1}{8}$ 9. $\frac{2}{3}$ _____ $\frac{5}{6}$ 10. $\frac{5}{9}$ _____ $\frac{1}{3}$ 11. $\frac{1}{2}$ _____ $\frac{7}{8}$

12. $\frac{5}{20}$ _____ $\frac{10}{15}$ 13. $\frac{3}{5}$ _____ $\frac{4}{10}$ 14. $\frac{2}{4}$ _____ $\frac{4}{8}$ 15. $\frac{6}{7}$ _____ $\frac{8}{14}$

ESTIMATING

Estimate. Tell whether the fraction is about 1, $1/2$, or 0.

16. $8/9$

17. $1/3$

18. $1/12$

19. $6/7$

20. $5/8$

21. $3/4$

22. $11/12$

23. $7/12$

Exercise 8A

1.

$$\frac{1}{3} = \frac{\quad}{6}$$

2.

$$\frac{1}{4} = \frac{2}{\quad}$$

3.

$$\frac{1}{6} = \frac{3}{\quad}$$

4.

$$\frac{2}{5} = \frac{\quad}{10}$$

5.

$$2 \frac{2}{3} = 2 \frac{\quad}{6}$$

6.

$$4 \frac{6}{5} = 5 \frac{\quad}{5}$$

7.

$$6 \frac{5}{6} = 6 \frac{10}{\quad}$$

8.

$$1 \frac{10}{9} = 2 \frac{1}{\quad}$$

Exercise 8B

Add. Write the sum in simplest form.

9. $\frac{3}{4} + \frac{3}{8} =$

10. $\frac{3}{10} + \frac{1}{5} =$

11. $\frac{1}{12} + \frac{2}{3} =$

12. $\frac{5}{12} + \frac{1}{3} =$

13. $\frac{2}{5} + \frac{7}{10} =$

14. $\frac{7}{8} + \frac{1}{4} =$

15. $\frac{5}{6} + \frac{2}{3} =$

16. $\frac{1}{12} + \frac{1}{4} =$

17. $2 \frac{1}{3} + 3 \frac{1}{2} =$

18. $4 \frac{5}{7} + 2 \frac{3}{14} =$

19. $7 \frac{3}{4} + 2 \frac{1}{5} =$

20. $1 \frac{2}{3} + 2 \frac{1}{4} =$

21. $2\frac{5}{8} + 1\frac{5}{6} =$

22. $3\frac{4}{5} + 2\frac{2}{3} =$

23. $4\frac{3}{10} + 3\frac{13}{20} =$

24. $8\frac{11}{12} + 3\frac{1}{4} =$

Exercise 9A

Subtract.

1. $\frac{7}{8} - \frac{1}{16} =$

2. $\frac{2}{3} - \frac{3}{9} =$

3. $\frac{3}{4} - \frac{1}{8} =$

4. $\frac{3}{5} - \frac{1}{10} =$

5. $\frac{3}{4} - \frac{1}{2} =$

6. $\frac{1}{2} - \frac{1}{6} =$

7. $\frac{5}{8} - \frac{1}{2} =$

8. $\frac{4}{5} - \frac{1}{2} =$

9. $2\frac{1}{2} - 1\frac{2}{7} =$

10. $4\frac{1}{2} - 2\frac{1}{3} =$

11. $5\frac{1}{4} - 2\frac{1}{12} =$

12. $6\frac{7}{9} - 2\frac{1}{3} =$

13. $5\frac{1}{3} - 2\frac{1}{4} =$

14. $3\frac{2}{3} - 1\frac{1}{2} =$

15. $6\frac{3}{5} - 2\frac{1}{10} =$

16. $8\frac{5}{6} - 3\frac{1}{8} =$

Exercise 9B**Solve.**

17. Dorothy has $3\frac{3}{4}$ h to spend in the computer lab. She spent $1\frac{1}{2}$ h learning a new program. How much time does she have left to spend in the lab?

18. Valerie needs $\frac{5}{8}$ m of lace. She has $\frac{1}{3}$ m. How much more lace does she need?

Exercise 10A**Use the circle graph below to answer these questions.**

1. What fraction of the people like rock music the best?
2. Do more people like country or classical music the best?
3. What fraction of the people like easy listening music?
4. What is the difference between the fraction of people who like rock music and country music?
5. What kind of music do the fewest people like?
6. Which is greater, the fraction of people who like rock music or the sum of the people who like country music and easy listening?

Exercise 10B

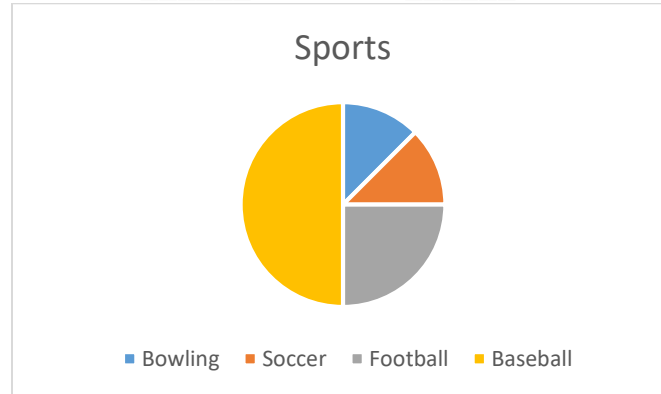
Write the fraction for each part of the circle graph.

Bowling _____

Football _____

Soccer _____

Baseball _____



Probability

Complete

1. What is the probability of drawing a 4? _____

2. What is the probability of drawing a 6? _____

3. What is the probability of drawing a 7? _____

4. What is the probability of drawing a 1? _____

5. There is ____ chance in ____ of drawing a 2.

6. There are ____ chances in ____ of drawing a 1.

7. There are ____ chances in ____ of drawing a 9.

Module 8: Fractions in Real Life

Review 1

Write the fraction.

1. three fifths _____

2. One third _____

3. Six sevenths _____

Write the equivalent fraction.

4. $\frac{1}{3} = \frac{\quad}{9}$

5. $\frac{2}{5} = \frac{4}{\quad}$

6. $\frac{8}{9} = \frac{16}{\quad}$

7. $\frac{4}{7} = \frac{\quad}{14}$

Write the fraction in simplest form.

8. $\frac{8}{24} = \frac{\quad}{3}$

9. $\frac{5}{15} = \frac{1}{\quad}$

10. $\frac{6}{12} = \frac{\quad}{2}$

11. $\frac{4}{20} = \frac{1}{\quad}$

Add. Write the sum in simplest form.

12. $2/4 + 1/4 =$

13. $1/6 + 4/6 =$

14. $7/9 + 1/9 =$

15. $1/3 + 2/6 =$

16. $2/5 + 3/10 =$

17. $5 \frac{1}{6} + 2 \frac{3}{18} =$

18. $4 \frac{6}{7} + 4 \frac{3}{14} =$

Subtract.

19. $8/9 - 4/9 =$

20. $1/4 - 1/12 =$

21. $3 \frac{1}{2} - 1 \frac{1}{8} =$

22. $5 \frac{3}{4} - 2 \frac{1}{24} =$

Exercise 11A

Multiply. Write the product in simplest form.

1. $3 \times \frac{1}{4} =$

2. $4 \times \frac{4}{5} =$

3. $\frac{1}{3} \times 7 =$

4. $\frac{2}{5} \times 3 =$

5. $20 \times \frac{3}{7} =$

6. $14 \times \frac{3}{4} =$

7. $\frac{2}{3} \times 10 =$

8. $\frac{5}{12} \times 6 =$

9. $5 \times \frac{3}{4} =$

10. $\frac{2}{9} \times 4 =$

11. $\frac{1}{8} \times 8 =$

12. $\frac{6}{7} \times 11 =$

13. $9 \times \frac{1}{4} =$

14. $33 \times \frac{1}{6} =$

15. $\frac{1}{11} \times 6 =$

16. $9 \times \frac{3}{10} =$

Exercise 11B

Solve.

17. There are 16 customers in line at the bank. One fourth of them are making deposits only. How many people are making deposits?

18. It is $\frac{7}{10}$ of a kilometer from Rebecca's office to the bus stop. How far does Rebecca walk to and from the bus stop each day?

19. There are 24 people in Joe's computer class. Two thirds of them were in his class last semester. How many people were in his class last semester?

Exercise 12A

Multiply. Write the product in simplest form.

1. $\frac{1}{3} \times \frac{1}{2} =$

2. $\frac{1}{4} \times \frac{1}{5} =$

3. $\frac{1}{6} \times \frac{1}{7} =$

4. $\frac{5}{8} \times \frac{1}{3} =$

5. $\frac{6}{7} \times \frac{1}{4} =$

6. $\frac{5}{6} \times \frac{7}{10} =$

7. $\frac{1}{6} \times \frac{3}{10} =$

8. $\frac{4}{5} \times \frac{1}{3} =$

9. $\frac{2}{9} \times \frac{5}{6} =$

10. $\frac{11}{12} \times \frac{1}{10} =$

11. $\frac{1}{12} \times \frac{2}{15} =$

12. $\frac{2}{3} \times \frac{5}{12} =$

13. $\frac{7}{9} \times \frac{1}{3} =$

14. $\frac{1}{3} \times \frac{3}{5} =$

15. $\frac{1}{4} \times \frac{1}{6} =$

16. $\frac{1}{2} \times \frac{1}{16} =$

17. $\frac{7}{10} \times \frac{2}{5} =$

18. $\frac{2}{5} \times \frac{3}{5} =$

Exercise 12B

Owen is making Blue Cheese Dip. He makes only half of the recipe. Use the information at the right to answer each question.

Blue Cheese Dip	
$\frac{1}{2}$ c	Crumbled blue cheese
$\frac{3}{4}$ c	Yogurt
$\frac{1}{3}$ c	Lemon juice
$\frac{1}{4}$ c	Sour cream
$\frac{1}{8}$ tsp	Garlic powder
Mix all the ingredients together. Chill	

19. How much of each ingredient should Owen use?

20. Owen used only $\frac{1}{3}$ of the dip he made. What fraction of the recipe did he use?

Exercise 13A**Multiply. Write the product in simplest form.**

1. $2\frac{1}{2} \times \frac{1}{3} =$

2. $3\frac{1}{4} \times \frac{2}{5} =$

3. $\frac{1}{3} \times 1\frac{3}{4} =$

4. $\frac{3}{4} \times 1\frac{1}{10} =$

5. $2\frac{3}{8} \times 1\frac{1}{2} =$

6. $4\frac{4}{5} \times 2\frac{3}{10} =$

7. $3\frac{6}{7} \times 4\frac{2}{3} =$

8. $5\frac{1}{6} \times 3 =$

9. $6\frac{1}{2} \times 3 =$

10. $2\frac{3}{5} \times 7 =$

11. $9 \times 1\frac{1}{3} =$

12. $2\frac{1}{9} \times 0 =$

13. $8\frac{1}{3} \times \frac{4}{5} =$

14. $5 \times 3\frac{1}{5} =$

15. $10\frac{1}{2} \times 3\frac{4}{7} =$

16. $3\frac{12}{13} \times 1 =$

17. $4\frac{1}{6} \times \frac{2}{3} =$

18. $\frac{1}{4} \times 3\frac{5}{6} =$

19. $1\frac{8}{9} \times 3 =$

20. $\frac{8}{11} \times 3\frac{1}{10} =$

21. $9 \times 1\frac{2}{9} =$

Exercise 13B**Solve.**

22. Jackie is wallpapering 3 rooms in her house. It takes her $6\frac{1}{2}$ h to finish one room. How long will it take her to finish 3 rooms?

23. Wanda's Wallcoverings is open $8\frac{2}{3}$ h each day. Benny works $\frac{3}{4}$ of the time the store is open. How many hours does he work?

24. Wanda bought $3\frac{1}{4}$ m of decorative ribbon. She used $2\frac{2}{3}$ m. How much ribbon does she have left over?

Exercise 14A**What is the reciprocal of each number?**

1. $\frac{1}{2} =$

2. $\frac{1}{4} =$

3. $\frac{6}{7} =$

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

Exercise 14B5. How many $\frac{1}{2}$ s in 3?6. How many $\frac{1}{3}$ s in 3?**Exercise 14C****Divide. Write the quotient in simplest form.**

7. $1 \div \frac{1}{5} =$

8. $6 \div \frac{1}{3} =$

9. $4 \div \frac{1}{4} =$

10. $8 \div \frac{3}{10} =$

11. $2 \div \frac{1}{8} =$

12. $5 \div \frac{1}{6} =$

$13. 3 \div \frac{1}{4} =$

$14. 5 \div \frac{1}{5} =$

$15. 6 \div \frac{1}{7} =$

$16. 4 \div \frac{2}{5} =$

$17. 8 \div \frac{4}{5} =$

$18. 10 \div \frac{1}{5} =$

CRITICAL THINKING

19. When you divide a whole number by a fraction, will the quotient be greater than or less than the whole number? Explain your answer.

CRITICAL THINKING

When you divide a fraction by a whole number, will the quotient be greater than or less than the dividend?

Exercise 15A

What is the reciprocal of each number?

$1. 3 =$

$2. 5 =$

$3. 7 =$

$4. 19 =$

Exercise 15B

Divide. Write the quotient in simplest form.

$5. \frac{1}{3} \div 3 =$

$6. \frac{2}{5} \div 4 =$

$7. \frac{3}{8} \div 5 =$

8. $\frac{2}{3} \div 5 =$

9. $\frac{1}{6} \div 9 =$

10. $\frac{6}{7} \div 4 =$

11. $\frac{3}{11} \div 10 =$

12. $\frac{1}{9} \div 7 =$

13. $\frac{1}{4} \div 4 =$

14. $\frac{1}{8} \div 4 =$

15. $\frac{2}{7} \div 4 =$

16. $\frac{2}{5} \div 5 =$

17. $\frac{1}{6} \div 6 =$

18. $\frac{5}{6} \div 5 =$

19. $\frac{2}{3} \div 3 =$

20. $\frac{1}{4} \div 3 =$

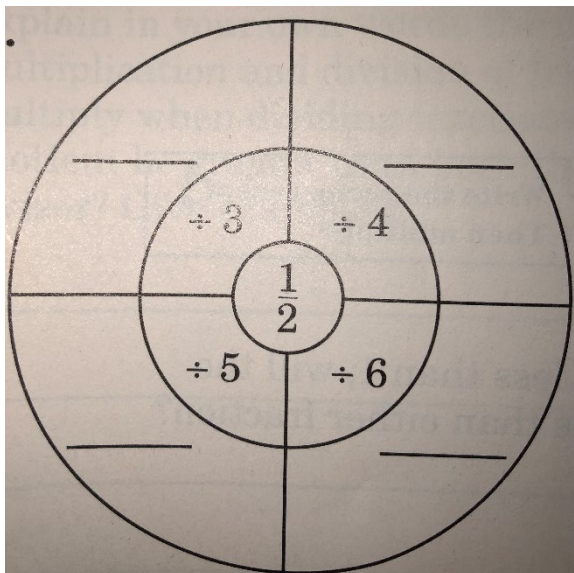
21. $\frac{3}{4} \div 4 =$

22. $\frac{2}{5} \div 7 =$

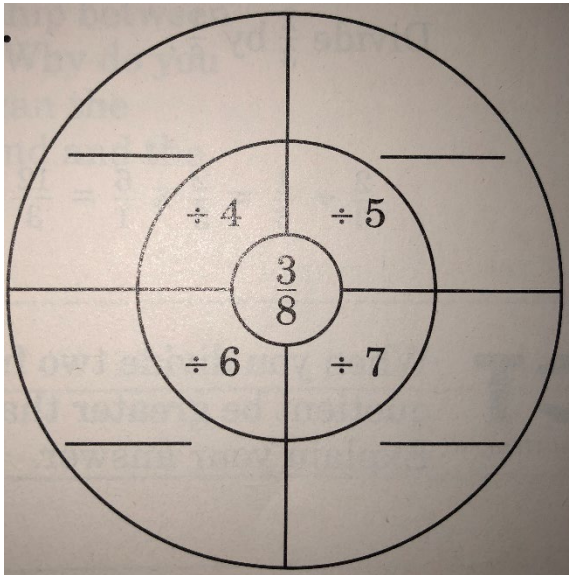
Exercise 15C

Complete and reduce answer to simplest form.

23.



24.



CRITICAL THINKING

When you divide two fractions less than 1, will the quotient be greater than or less than either fraction? Explain your answer.

Exercise 16A

What is the reciprocal of each number?

1. $\frac{4}{5} =$

2. $\frac{3}{4} =$

3. $\frac{2}{3} =$

4. $\frac{8}{7} =$

Exercise 16B

Divide. Write the quotient in simplest form.

5. $\frac{5}{6} \div \frac{4}{9} =$

6. $\frac{4}{5} \div \frac{1}{5} =$

7. $\frac{10}{9} \div \frac{4}{3} =$

8. $\frac{3}{5} \div \frac{2}{3} =$

9. $\frac{3}{8} \div \frac{3}{4} =$

10. $\frac{4}{5} \div \frac{1}{10} =$

11. $\frac{7}{10} \div \frac{1}{6} =$

12. $\frac{5}{8} \div \frac{1}{4} =$

13. $\frac{2}{9} \div \frac{4}{3} =$

14. $\frac{2}{5} \div \frac{5}{8} =$

15. $\frac{1}{4} \div \frac{1}{3} =$

16. $\frac{2}{3} \div \frac{2}{9} =$

17. $\frac{1}{2} \div \frac{7}{16} =$

18. $\frac{1}{3} \div \frac{3}{4} =$

19. $\frac{5}{6} \div \frac{7}{12} =$

20. $\frac{3}{8} \div \frac{3}{8} =$

21. $\frac{1}{2} \div \frac{2}{3} =$

22. $\frac{3}{4} \div \frac{3}{8} =$

WRITING IN MATH

Explain in your own words the relationship between multiplication and division of fractions. Why do you multiply when dividing fractions? How can the quotient be greater than both the dividend and the divisor? Give examples.

CRITICAL THINKING

When you divide two mixed numbers, will the quotient be greater than or less than either mixed number? Explain.

When you divide a mixed number by a fraction, will the quotient be greater than or less than the mixed number? Explain.

Exercise 17A

Write the mixed number as a fraction. Then write the reciprocal of the fraction.

1. $3 \frac{1}{2} =$

2. $4 \frac{4}{5} =$

3. $6 \frac{2}{3} =$

4. $1 \frac{3}{8} =$

5. $2 \frac{1}{12} =$

6. $8 \frac{1}{7} =$

Exercise 17B

Divide. Write the quotient in simplest form.

7. $3 \div 5 \frac{1}{3} =$

8. $6 \div 2 \frac{3}{4} =$

9. $4 \div 1 \frac{1}{2} =$

10. $3 \frac{1}{2} \div 7/10 =$

11. $1 \frac{3}{4} \div \frac{1}{2} =$

12. $2 \frac{2}{5} \div 4 =$

$$13. 3 \frac{3}{4} \div 3 =$$

$$14. 1 \frac{1}{3} \div 12 =$$

$$15. 5 \frac{1}{4} \div 9 =$$

$$16. 3 \frac{3}{4} \div 2 \frac{1}{2} =$$

$$17. 8 \frac{1}{3} \div 3 \frac{1}{3} =$$

$$18. 1 \frac{3}{20} \div 1 \frac{4}{5} =$$

$$19. 20 \div 2 \frac{2}{3} =$$

$$20. 3 \frac{5}{9} \div 4 \frac{4}{9} =$$

$$21. 6 \frac{1}{2} \div 9 \frac{3}{4} =$$

$$22. 14 \div 5 \frac{1}{4} =$$

$$23. 7 \div 3 \frac{1}{9} =$$

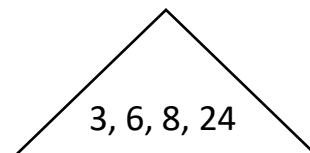
$$24. \frac{4}{5} \div 1 \frac{5}{7} =$$

CRITICAL THINKING

Use the numbers in the triangle to make the greatest possible quotient and the least possible quotient.

$$25. \underline{\quad} \div \underline{\quad}$$

$$26. \underline{\quad} \div \underline{\quad}$$



Exercise 18A

Tell which operation you used to solve each problem. Then solve.

1. Maria worked $6\frac{1}{2}$ hours on Monday. Neil worked $1\frac{1}{2}$ times as long. How many hours did Neil work?
2. Rachel rode her exercise bicycle $8\frac{1}{2}$ hours last week and 3 hours this week. How many hours did she ride during these two weeks?
3. Sandy's Gravel Company loaded $\frac{3}{8}$ T of gravel onto 2 trucks. What amount of gravel was loaded onto each truck?
4. Mr. Ramirez bought a roll of wire $\frac{5}{6}$ yd long. He cut it into pieces $\frac{1}{12}$ yd long. How many pieces of wire does he have now?
5. Mel put $\frac{1}{3}$ of his paycheck into his savings account. He used $\frac{1}{4}$ of his check to pay his rent. What fraction of his paycheck does he have left?
6. Robin had $\frac{2}{3}$ lb of potato salad left over from a cookout. She shared it equally among her 3 children. How much did each child receive?
7. Barbara worked $32\frac{1}{2}$ h last week and 40 h this week. How many more hours did she work this week than last week?

APPLICATION

Recipes

Fractions are used in cooking to indicate how much of each ingredient is needed for a given recipe. You may want to adjust the measures to make a larger or smaller quantity than the recipe calls for.

Solve.

1. David uses this recipe for molasses bread. He needs to make 1 loaf. How much of each ingredient does he need?

Molasses Bread	
2 eggs	3 tsp baking powder
2 c bran	1 $\frac{1}{4}$ tsp baking soda
2 c flour	$\frac{1}{2}$ c molasses
$\frac{1}{2}$ c sugar	2 c buttermilk
$\frac{1}{2}$ tsp salt	$\frac{1}{2}$ c oil
Makes 2 loaves	

2. Molly is making blueberry muffins. She needs 1 $\frac{1}{2}$ dozen muffins. How much of each ingredient does she need?

Blueberry Muffins	
$\frac{3}{4}$ c flour	1 c whole wheat flour
$\frac{1}{4}$ c sugar	1 c blueberries
$\frac{3}{4}$ tsp salt	$\frac{3}{4}$ c buttermilk
2 eggs	1 tsp baking powder
$\frac{1}{3}$ c salad oil	$\frac{1}{4}$ tsp baking soda
Makes 1 dozen muffins	

Module 8: Fractions in Real Life
Review 2

Multiply. Write the product in simplest form.

1. $2 \times \frac{1}{2} =$

2. $4 \times \frac{1}{3} =$

3. $\frac{3}{5} \times 7 =$

4. $8 \times \frac{2}{3} =$

5. $\frac{1}{2} \times \frac{3}{4} =$

6. $\frac{1}{8} \times \frac{4}{5} =$

7. $\frac{3}{4} \times \frac{4}{7} =$

8. $\frac{7}{10} \times \frac{2}{5} =$

9. $\frac{7}{8} \times \frac{1}{4} =$

10. $2\frac{5}{6} \times 5 =$

11. $1 \times 3\frac{4}{5} =$

12. $3\frac{2}{5} \times 1\frac{1}{2} =$

13. $8\frac{1}{3} \times 7 =$

14. $2\frac{1}{3} \times 3\frac{1}{3} =$

15. $\frac{6}{7} \times 4\frac{1}{8} =$

What is the reciprocal of each number?

16. $\frac{1}{3} =$

17. $\frac{4}{5} =$

18. $\frac{9}{10} =$

19. $\frac{11}{3} =$

20. $3 =$

21. $9 =$

22. $16 =$

23. $41 =$

Divide. Write the quotient in simplest form.

24. $1 \div 1/3 =$

25. $4 \div 1/5 =$

26. $6 \div 1/3 =$

27. $1/4 \div 8 =$

28. $3/8 \div 21 =$

29. $3/4 \div 9 =$

30. $1/2 \div 1/2 =$

31. $3/4 \div 1/3 =$

32. $3/5 \div 1/4 =$

33. $2/7 \div 2/3 =$

34. $4 \div 3\frac{1}{6} =$

35. $1\frac{4}{9} \div 8\frac{2}{3} =$