

Module 8
Fractions in Real Life

Part 1

Exercise 1-A

1. $\frac{2}{3}$
2. $\frac{3}{4}$
3. $\frac{1}{2}$
4. $\frac{1}{8}$
5. $\frac{5}{6}$
6. $\frac{2}{4}$

Exercise 1-B

7. $\frac{3}{8}$
8. $\frac{4}{4}$
9. $\frac{0}{9}$
10. $\frac{7}{10}$
11. $\frac{5}{8}$
12. $\frac{1}{6}$

Exercise 1-C

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

Exercise 1-D

19. 4
20. 2
21. 3
22. 4
23. 3
24. 3

PART 2

Exercise 2-A

1. $\frac{1}{2} = \frac{2}{4}$
2. $\frac{1}{3} = \frac{3}{9}$
3. $\frac{3}{8} = \frac{3}{8}$
4. $\frac{5}{6} = \frac{15}{18}$
5. $\frac{2}{4} = \frac{4}{8}$
6. $\frac{2}{3} = \frac{6}{9}$
7. $\frac{1}{4} = \frac{2}{8}$
8. $\frac{1}{2} = \frac{4}{8}$
9. $\frac{1}{3} = \frac{2}{6}$

Exercise 2-B

10. $\frac{2}{12}$
11. $\frac{6}{12}$
12. $\frac{4}{32}$
13. $\frac{6}{14}$
14. $\frac{15}{50}$
15. $\frac{2}{14}$
16. $\frac{4}{18}$
17. $\frac{15}{18}$
18. $\frac{24}{28}$

PART 3

Exercise 3-A

1. 1;2
2. 1;3
3. 1;2

Exercise 3-B

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

Exercise 3C

13.1

14.1

15.4

16.2

17.5

18.1

PART 4**Exercise 4-A**1. $1\frac{3}{8}$ 2. $2\frac{2}{3}$

3. 2

4. $1\frac{4}{9}$ **Exercise 4-B**

5. 4

6. 2

7. 5

8. 5

Exercise 4-C9. $1\frac{3}{5}$ 10. $2\frac{1}{5}$ 11. $3\frac{1}{3}$ 12. $3\frac{1}{3}$ 13. $2\frac{4}{9}$ 14. $1\frac{6}{7}$ 15. $3\frac{1}{2}$ 16. $1\frac{1}{2}$ **Exercise 4-D**

17. 8

18. $3\frac{2}{3}$

PART 5

Exercise 5-A

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

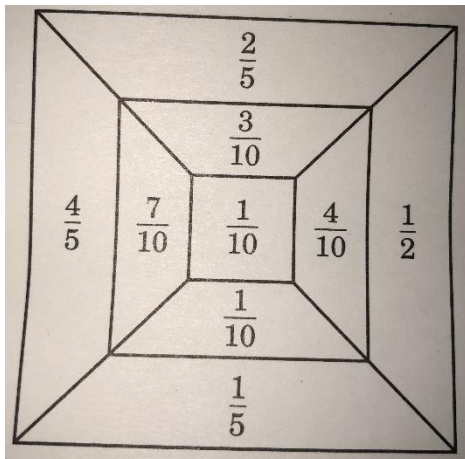
Exercise 5-B

10. 1
11. $\frac{3}{4}$
12. $\frac{7}{8}$
13. $\frac{2}{3}$
14. $\frac{1}{2}$
15. $\frac{7}{9}$

Exercise 5-C

16. $\frac{3}{8}$
17. $\frac{4}{5}$ km

Mental Math



PART 6

Exercise 6-A

1. $\frac{1}{5}$
2. $\frac{2}{3}$
3. $\frac{1}{4}$
4. $\frac{1}{2}$
5. $\frac{2}{3}$
6. $\frac{1}{4}$
7. $\frac{2}{5}$
8. $\frac{5}{12}$
9. $\frac{1}{2}$

Exercise 6-B

10. $\frac{2}{5}$
11. $\frac{1}{2}$
12. $\frac{5}{12}$
13. $\frac{2}{3}$
14. $\frac{1}{3}$
15. $\frac{3}{8}$

Exercise 6-C

16. $\frac{1}{2}\text{km}$
17. $\frac{1}{4}$
18. $\frac{1}{3}\text{m}$

PART 7

Exercise 7-A

1. $>$
2. $>$
3. $<$

Exercise 7-B

4. $=$
5. $>$
6. $>$
7. $<$

Exercise 7-C

8. >

9. <

10. >

11. <

12. <

13. >

14. =

15. >

Estimating

16.1

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

18.0

19.1

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

21.1

22.1

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

PART 8**Exercise 8-A**

1. 2

2. 8

3. 18

4. 4

5. 4

6. 1

7. 12

8. 9

Exercise 8-B

9. $1\frac{1}{8}$

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

11. $\frac{3}{4}$

12. $\frac{3}{4}$

13. $1\frac{1}{10}$

14. $1\frac{1}{8}$

- 15.1 $\frac{1}{2}$
- 16.1 $\frac{1}{3}$
- 17.5 $\frac{5}{6}$
- 18.6 $\frac{13}{14}$
- 19.9 $\frac{19}{20}$
- 20.3 $\frac{11}{12}$
- 21.4 $\frac{11}{24}$
- 22.6 $\frac{7}{15}$
- 23.7 $\frac{19}{20}$
- 24.12 $\frac{1}{6}$

PART 9

Exercise 9-A

- 1. $\frac{13}{16}$
- 2. $\frac{1}{3}$
- 3. $\frac{5}{8}$
- 4. $\frac{1}{2}$
- 5. $\frac{1}{4}$
- 6. $\frac{1}{3}$
- 7. $\frac{1}{8}$
- 8. $\frac{3}{10}$
- 9. $1\frac{3}{14}$
- 10.2 $\frac{1}{6}$
- 11.3 $\frac{1}{6}$
- 12.4 $\frac{4}{9}$
- 13.3 $\frac{1}{12}$
- 14.2 $\frac{1}{6}$
- 15.4 $\frac{1}{2}$
- 16.5 $\frac{17}{24}$

Exercise 9-B

- 17.2 $\frac{1}{4}$ h
- 18.7 $\frac{7}{24}$ m

PART 10

Exercise 10-A

1. $\frac{3}{8}$
2. Country
3. $\frac{1}{4}$
4. $\frac{1}{8}$
5. Classical
6. The sum of people who like country music and easy listening is missing.

Exercise 10-B

$\frac{1}{8}$; $\frac{1}{4}$; $\frac{1}{8}$; $\frac{1}{2}$

Application

1. $\frac{1}{7}$
2. $\frac{1}{7}$
3. $\frac{0}{7}$
4. $\frac{2}{7}$
5. 1 ; 7
6. 2 ; 7
7. 0 ; 7

Module 8: Fractions in Real Life

Review 1

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

- 15. $\frac{2}{3}$
- 16. $\frac{7}{10}$
- 17. $1\frac{1}{3}$
- 18. $1\frac{1}{14}$
- 19. $\frac{4}{9}$
- 20. $\frac{1}{6}$
- 21. $2\frac{3}{8}$
- 22. $3\frac{17}{24}$

PART 11

Exercise 11-A

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

Exercise 11-B

- 17. 4
- 18. $1\frac{2}{5}$ km
- 19. 16

PART 12

Exercise 12-A

- 1. $\frac{1}{6}$
- 2. $\frac{1}{20}$
- 3. $\frac{1}{42}$

4. $5/24$
5. $3/14$
6. $7/12$
7. $1/20$
8. $4/15$
9. $5/27$
10. $11/120$
11. $1/90$
12. $5/18$
13. $7/27$
14. $1/5$
15. $1/24$
16. $1/32$
17. $7/25$
18. $6/25$

Exercise 12-B

19. $\frac{1}{4}$ c crumbled blue cheese
- $\frac{3}{8}$ c yogurt
- $\frac{1}{6}$ tsp lemon juice
- $\frac{1}{8}$ c sour cream
- $\frac{1}{16}$ tsp garlic powder
20. $1/6$

PART 13

Exercise 13-A

1. $5/6$
2. $1\frac{3}{10}$
3. $7/12$
4. $33/40$
5. $3\frac{9}{16}$
6. $11\frac{1}{25}$
7. 18
8. $15\frac{1}{2}$
9. $19\frac{1}{2}$
10. $18\frac{1}{5}$
11. 12

12.0
13.6 $\frac{2}{3}$
14.16
15.37 $\frac{1}{2}$
16.3 $\frac{12}{13}$
17.2 $\frac{7}{9}$
18.23/24
19.5 $\frac{2}{3}$
20.2 $\frac{14}{55}$
21.11

Exercise 13-B

22.19 $\frac{1}{2}$ h
23.6 $\frac{1}{2}$ h
24.7/12m

PART 14

Exercise 14-A

1. 2
2. 4
3. $\frac{7}{6}$
4. $\frac{9}{4}$

Exercise 14-B

5. 6
6. 9

Exercise 14-C

7. 5
8. 18
9. 16
10.26 $\frac{2}{3}$
11.16
12.30
13.12
14.25
15.42
16.10
17.10
18.50

Critical Thinking

19. Greater; you are determining how many times a part is contained in a whole.

PART 15

Exercise 15-A

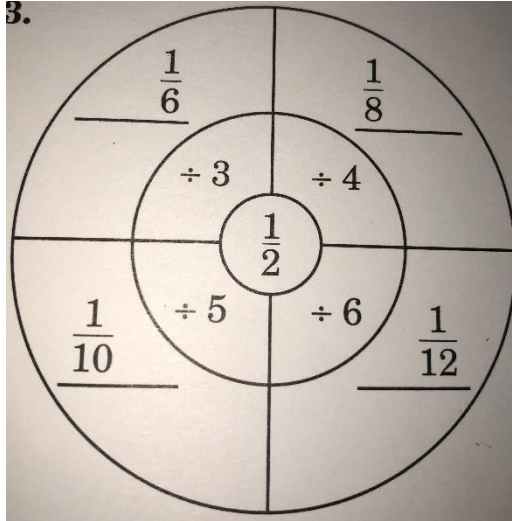
1. $\frac{1}{3}$
2. $\frac{1}{5}$
3. $\frac{1}{7}$
4. $\frac{1}{19}$

Exercise 15-B

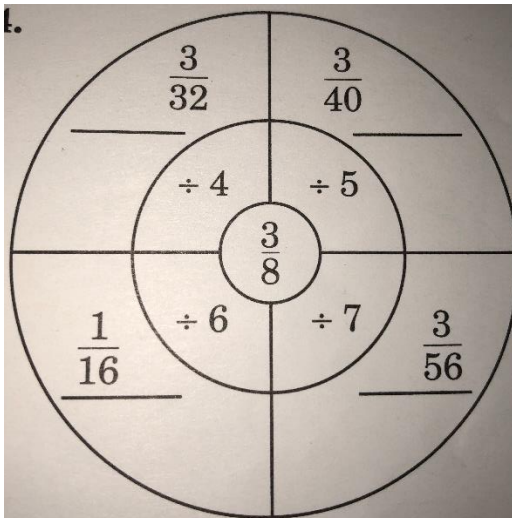
5. $\frac{1}{9}$
6. $\frac{1}{10}$
7. $\frac{3}{40}$
8. $\frac{2}{15}$
9. $\frac{1}{54}$
10. $\frac{3}{14}$
11. $\frac{3}{110}$
12. $\frac{1}{63}$
13. $\frac{1}{16}$
14. $\frac{1}{32}$
15. $\frac{1}{14}$
16. $\frac{2}{25}$
17. $\frac{1}{36}$
18. $\frac{1}{6}$
19. $\frac{2}{9}$
20. $\frac{1}{12}$
21. $\frac{3}{16}$
22. $\frac{2}{35}$

Exercise 15-C

23.



24.



PART 16

Exercise 16-A

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

Exercise 16-B

5. $1\frac{7}{8}$
6. 4
7. $\frac{5}{6}$
8. $\frac{9}{10}$
9. $\frac{1}{2}$
10. 8
11. $4\frac{1}{5}$
12. $2\frac{1}{2}$
13. $\frac{1}{6}$
14. $\frac{16}{25}$
15. $\frac{3}{4}$
16. 3
17. $1\frac{1}{7}$
18. $\frac{4}{9}$
19. $1\frac{3}{7}$
20. 1
21. $\frac{3}{4}$
22. 2

Writing in Math

Answers will vary. Possible answer: Dividing by a number gives you the same result as multiplying by its reciprocal. The quotient can be greater because you are determining how many times a part is contained in a whole.

PART 17**Exercise 17-A**

1. $\frac{7}{2}$; $\frac{2}{7}$
2. $\frac{24}{5}$; $\frac{5}{24}$
3. $\frac{20}{3}$; $\frac{3}{20}$
4. $\frac{11}{8}$; $\frac{8}{11}$
5. $\frac{25}{12}$; $\frac{12}{25}$
6. $\frac{57}{7}$; $\frac{7}{57}$

Exercise 17-B

7. $9/16$
8. $2\ 2/11$
9. $2\ 2/3$
- 10.5
11. $3\ 1/2$
12. $3/5$
13. $1\ 1/4$
14. $1/9$
15. $7/12$
16. $1\ 1/2$
17. $2\ 1/2$
18. $23/36$
19. $7\ 1/2$
20. $4/5$
21. $2/3$
22. $2\ 2/3$
23. $2\ 1/4$
24. $7/15$

Critical Thinking

25. $24/3 \div 6/8 = 10\ 2/3$
26. $3/6 \div 24/8 = 1/6$

PART 18

Exercise 18-A

1. Multiply; $9\ 3/4$
2. Add; $11\ 1/2$
3. Divide; $3/16$
4. Divide; 10
5. Multiply; $1/12$
6. Divide; $2/9$
7. Subtract; $7\ 1/2$

Application

- 1 egg; 7 ½ tsp baking powder
1c bran; 5/8 tsp baking soda
1c flour; 1/4c molasses
1/4c sugar; 1c buttermilk
¼ tsp salt; 1/4 c oil
- 1 1/8c flour; 1 1/2c whole wheat flour
3/8c sugar; 1 1/2c blueberries
1 1/8tsp salt; 1 1/8c buttermilk
3 eggs; 1 1/2tsp baking powder
¼ salad oil; 3/8 tsp baking soda

Module 8: Fractions in Real Life

Review 2

- 1
- 1 1/3
- 4 1/5
- 5 1/3
- 3/8
- 1/10
- 3/7
- 7/25
- 7/32
- 14 1/6
- 3 4/5
- 5 1/10
- 58 1/3
- 7 7/27
- 3 15/28
- 3
- 5/4
- 10/9
- 3/11
- 1/3
- 1/9
- 1/16

23.1/41

24.3

25.20

26.18

27.1/32

28.1/56

29.1/12

30.1

31.2 $\frac{1}{4}$

32.2 $\frac{2}{5}$

33.3/7

34.1 $\frac{5}{19}$

35.1/6