

Write each fraction as the product of a whole number and a unit fraction.

1.  $\frac{5}{8}$  \_\_\_\_\_

2.  $\frac{6}{10}$  \_\_\_\_\_

3.  $\frac{3}{3}$  \_\_\_\_\_

Multiply. Write the product as a mixed number.

4.  $2 \times \frac{4}{6}$  \_\_\_\_\_

5.  $4 \times \frac{3}{5}$  \_\_\_\_\_

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

Solve using repeated addition.

7.  $4 \times \frac{2}{3}$  \_\_\_\_\_

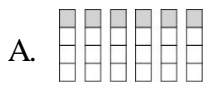
8.  $3 \times \frac{5}{8}$  \_\_\_\_\_

Multiply, and write the product as a whole number and a unit fraction.

9.  $4 \times \frac{2}{5}$  \_\_\_\_\_

10.  $5 \times \frac{3}{8}$  \_\_\_\_\_

11. Which model is shaded to represent a fraction equivalent to  $2 \times \frac{3}{4}$ ?



Write each fraction as a decimal.

12.  $\frac{4}{10}$  \_\_\_\_\_

13.  $\frac{5}{100}$  \_\_\_\_\_

14.  $\frac{63}{100}$  \_\_\_\_\_

15.  $\frac{90}{100}$  \_\_\_\_\_

Write each decimal as a fraction.

16. 0.07 \_\_\_\_\_

17. 0.3 \_\_\_\_\_

18. 0.59 \_\_\_\_\_

19. 0.2 \_\_\_\_\_

Find the sum.

20.  $\frac{4}{10} + \frac{30}{100} =$  \_\_\_\_\_

21.  $\frac{2}{100} + \frac{8}{10} =$  \_\_\_\_\_

22.  $\frac{35}{100} + \frac{3}{10} =$  \_\_\_\_\_

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

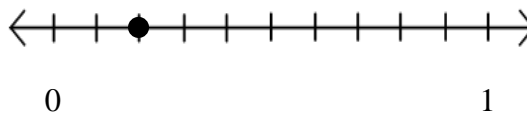
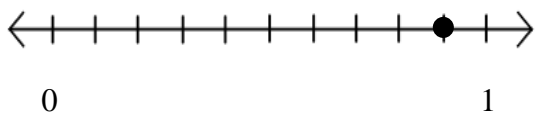
23. A. 0.23 \_\_\_\_\_ 0.02

B. 2.15 \_\_\_\_\_ 2.10

C. 2.03 \_\_\_\_\_ 2.53

D. 0.7 \_\_\_\_\_ 0.78

24. What fraction is represented by the point on the number lines?



25. Nigel spent  $\frac{3}{4}$  hour reading a book. Lincoln spent 3 times as much time as Nigel reading a book. How much time did Lincoln spend reading a book?

26. Joanna made 4 batches of cookies. She uses  $\frac{1}{3}$  cup of chocolate chips in each batch. How many cups of chocolate chips does Joanna use for 4 batches of cookies?

27. Danielle added  $\frac{4}{10} + \frac{39}{100}$ . Her incorrect sum was  $\frac{43}{100}$ .

A. What was Danielle's mistake? Explain your thinking.

B. What is the correct sum?  $\frac{4}{10} + \frac{39}{100}$

28. Which is NOT a multiple of  $\frac{5}{12}$ ?

A.  $\frac{5}{12}$

B.  $\frac{17}{12}$

C.  $\frac{30}{12}$

29. List the first 4 multiples of  $\frac{3}{10}$ .

## Q4C1 Fractions III Study Guide Key

Write each fraction as the product of a whole number and a unit fraction.

1.  $\frac{5}{8} = 5 \times \frac{1}{8}$       2.  $\frac{6}{10} = 6 \times \frac{1}{10}$       3.  $\frac{3}{3} = 3 \times \frac{1}{3}$

Multiply. Write product as a mixed number.

4.  $2 \times \frac{4}{6} = \frac{8}{6} = 1 \frac{2}{6}$       5.  $4 \times \frac{3}{5} = \frac{12}{5} = 2 \frac{2}{5}$       6.  $5 \times \frac{7}{10} = \frac{35}{10} = 3 \frac{5}{10}$

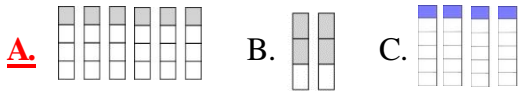
Solve using repeated addition.

7.  $4 \times \frac{2}{3} = \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{8}{3}$  or  $2 \frac{2}{3}$       8.  $3 \times \frac{5}{8} = \frac{5}{8} + \frac{5}{8} + \frac{5}{8} = \frac{15}{8}$  or  $1 \frac{7}{8}$

Multiply, and write the product as a whole number and a unit fraction.

9.  $4 \times \frac{2}{5} = 8 \times \frac{1}{5}$       10.  $5 \times \frac{3}{8} = 15 \times \frac{1}{8}$

11. Which model is shaded to represent a fraction equivalent to  $2 \times \frac{3}{4}$ ?



Write each fraction as a decimal.

12.  $\frac{4}{10} = 0.4$       13.  $\frac{5}{100} = 0.05$       14.  $\frac{63}{100} = 0.63$       15.  $\frac{90}{100} = 0.90$

Write each decimal as a fraction.

16.  $0.07 = \frac{7}{100}$       17.  $0.3 = \frac{3}{10}$       18.  $0.59 = \frac{59}{100}$       19.  $0.2 = \frac{2}{10}$

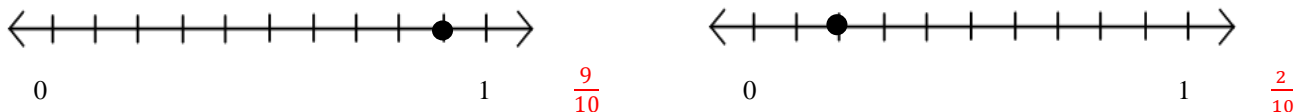
Find the sum.

20.  $\frac{4}{10} + \frac{30}{100} = \frac{70}{100}$       21.  $\frac{2}{100} + \frac{8}{10} = \frac{82}{100}$       22.  $\frac{35}{100} + \frac{3}{10} = \frac{65}{100}$

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

23. A.  $0.23 > .02$       B.  $2.15 > 2.10$       C.  $2.03 < 2.53$       D.  $0.7 < 0.7$

24. What fraction is represented by the point on the number lines?



25. Nigel spent  $\frac{3}{4}$  hour reading a book. Lincoln spent 3 times as much time as Nigel reading a book. How much time did Lincoln spend reading a book?  $3 \times \frac{3}{4} = \frac{9}{4}$  or  $2 \frac{1}{4}$  hours

26. Joanna made 4 batches of cookies. She uses  $\frac{1}{3}$  cup of chocolate chips in each batch. How many cups of chocolate chips does Joanna use for 4 batches of cookies?  $4 \times \frac{1}{3} = \frac{4}{3} = 1 \frac{1}{3}$  cups

27. Danielle added  $\frac{4}{10} + \frac{39}{100}$ . Her incorrect sum was  $\frac{43}{100}$ .

A. What was Danielle's mistake? Explain your thinking. Danielle added the fractions with uncommon denominators. She should have changed  $\frac{4}{10}$  to  $\frac{40}{100}$  before adding  $\frac{39}{100}$ .

B. What is the correct sum?  $\frac{4}{10} + \frac{39}{100} = \frac{40}{100} + \frac{39}{100} = \frac{79}{100}$

28. B      29.  $\frac{3}{10} + \frac{6}{10} + \frac{9}{10} + \frac{12}{10}$