



RADIANT HEIGHTS ACADEMY

From Radiant Minds to Great Heights

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Student Name: _____

MATHEMATICS BOOKLET

Level 3-4 Term 2 Week 1


THIS WEEK'S FOCUS

- ✓ What are Fractions?
- ✓ Comparing Fractions
- ✓ Greater, Equal, & Less Than

Fractions

Fractions are ways to show equal parts of a whole.

The **denominator of a fraction (bottom number)** shows how many equal parts the whole has been divided into. The **numerator of a fraction (top number)** shows how many of the equal parts there are.

 Example

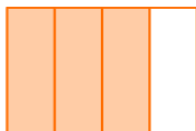
2 equal parts
one-half is shaded

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



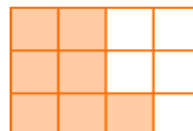
4 equal parts
three-quarters is shaded

$$\frac{3}{4}$$




12 equal parts
seven-twelfths is shaded

$$\frac{7}{12}$$



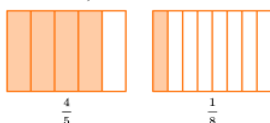
What are types of fractions?

Types of fractions are different ways to show numbers that include parts of a whole.

 Example

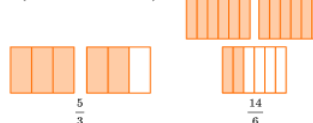
Proper fractions

A fraction where numerator (top number) is smaller than the denominator (bottom number):



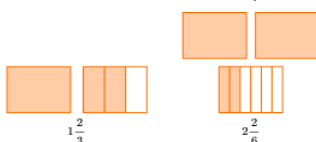
Improper fractions

A fraction where the numerator (top number) is equal to or larger than the denominator (bottom number):



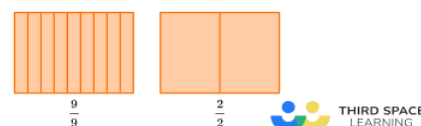
Mixed numbers

A number with a whole number and fractional part.



Fractions equal to 1

A fraction where the numerator and denominator are the same:

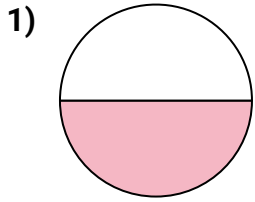


SYMBOL	DEFINITION	EXAMPLE
$>$	GREATER THAN	$6 > 3$
\geq	GREATER THAN OR EQUAL TO	$x \geq 6$
$<$	LESS THAN	$2 < 9$
\leq	LESS THAN OR EQUAL TO	$x \leq 11$
$=$	EQUALS	$y = 15$
\neq	NOT EQUAL	$4 \neq 9$

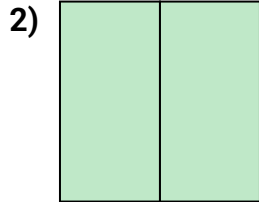


Determine which letter best describes the shaded portion.

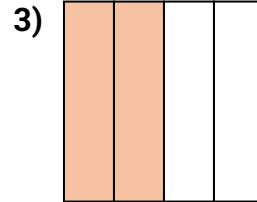
Answers



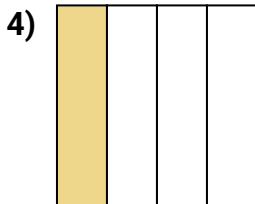
- A. one-half
- B. two-halves
- C. one-quarter



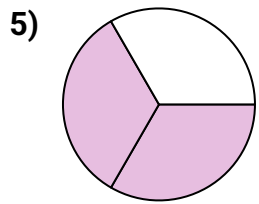
- A. three-quarters
- B. one-quarter
- C. two-halves



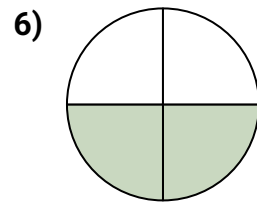
- A. two-quarters
- B. one-half
- C. three-quarters



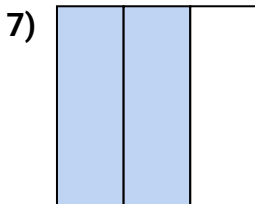
- A. three-quarters
- B. one-quarter
- C. two-halves



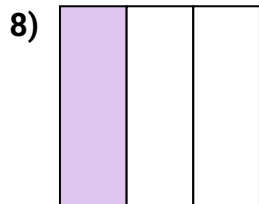
- A. three-quarters
- B. two-thirds
- C. two-quarters



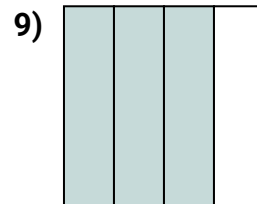
- A. three-quarters
- B. two-quarters
- C. four-quarters



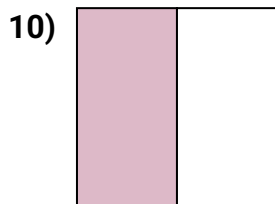
- A. one-quarter
- B. four-quarters
- C. two-thirds



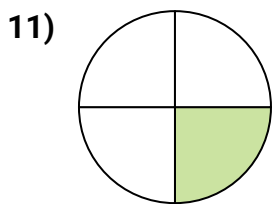
- A. three-quarters
- B. one-third
- C. two-halves



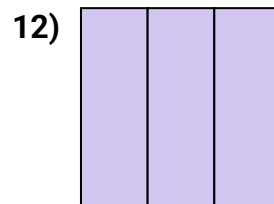
- A. four-quarters
- B. three-quarters
- C. two-quarters



- A. two-halves
- B. one-quarter
- C. one-half



- A. four-quarters
- B. one-half
- C. one-quarter



- A. three-thirds
- B. two-halves
- C. one-quarter

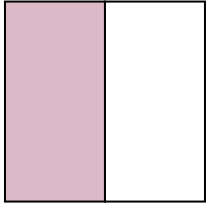
- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- 11. _____
- 12. _____



Determine which letter best describes the shaded portion.

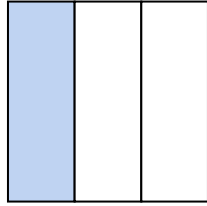
Answers

1)



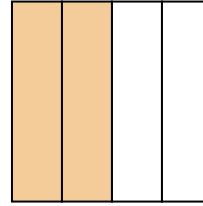
- A. one-half
- B. one-quarter
- C. two-quarters

2)



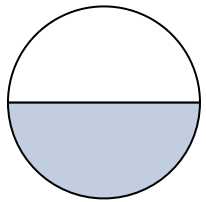
- A. one-quarter
- B. one-third
- C. two-halves

3)



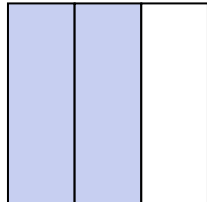
- A. two-halves
- B. two-quarters
- C. four-quarters

4)



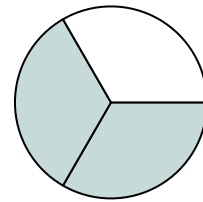
- A. one-half
- B. four-quarters
- C. three-quarters

5)



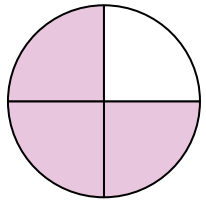
- A. two-thirds
- B. two-quarters
- C. four-quarters

6)



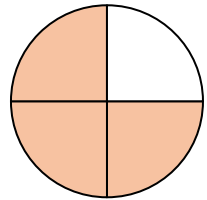
- A. two-thirds
- B. two-halves
- C. one-quarter

7)



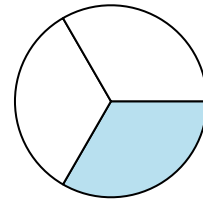
- A. four-quarters
- B. one-quarter
- C. three-quarters

8)



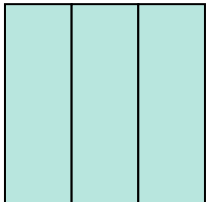
- A. three-quarters
- B. two-halves
- C. four-quarters

9)



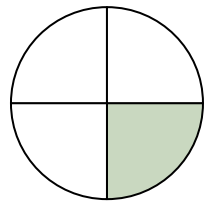
- A. one-third
- B. two-quarters
- C. four-quarters

10)



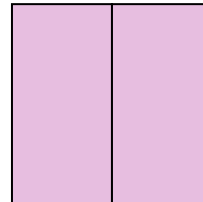
- A. one-quarter
- B. three-thirds
- C. two-quarters

11)



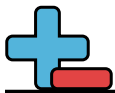
- A. one-quarter
- B. four-quarters
- C. two-halves

12)



- A. three-quarters
- B. two-quarters
- C. two-halves

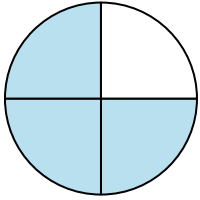
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Determine which letter best describes the shaded portion.

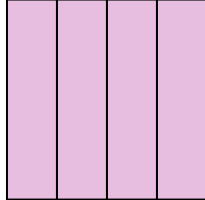
Answers

1)



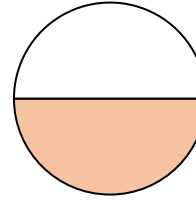
- A. four-quarters
- B. two-halves
- C. three-quarters

2)



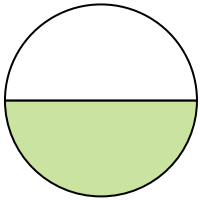
- A. one-half
- B. four-quarters
- C. one-quarter

3)



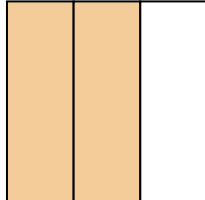
- A. one-half
- B. two-halves
- C. three-quarters

4)



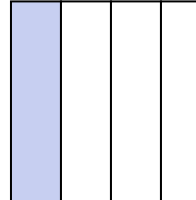
- A. one-half
- B. two-quarters
- C. two-halves

5)



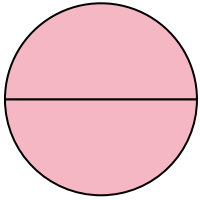
- A. two-quarters
- B. one-quarter
- C. two-thirds

6)



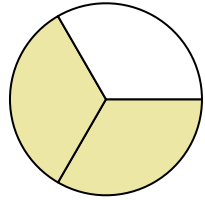
- A. four-quarters
- B. two-halves
- C. one-quarter

7)



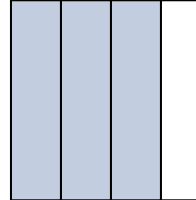
- A. one-quarter
- B. two-halves
- C. one-half

8)



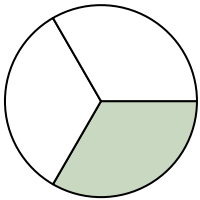
- A. one-half
- B. two-halves
- C. two-thirds

9)



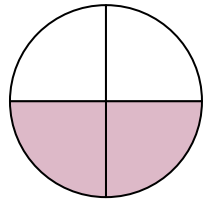
- A. four-quarters
- B. two-halves
- C. three-quarters

10)



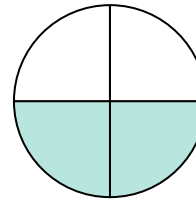
- A. one-quarter
- B. one-half
- C. one-third

11)



- A. four-quarters
- B. one-quarter
- C. two-quarters

12)

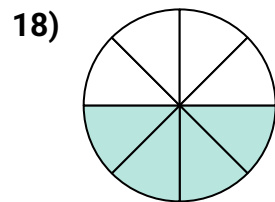
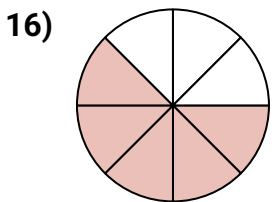
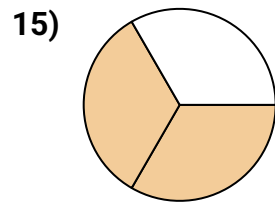
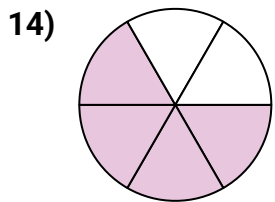
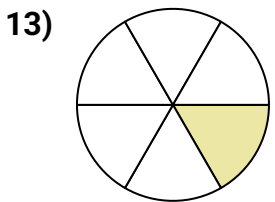
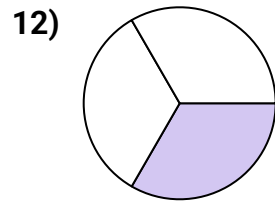
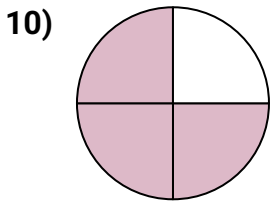
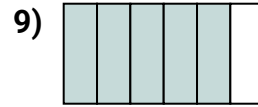
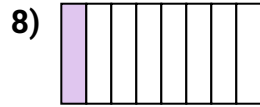
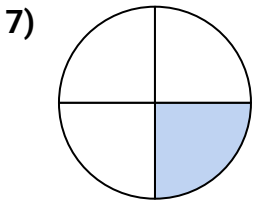
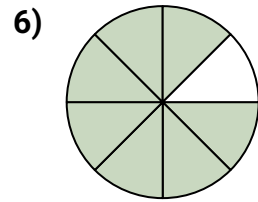
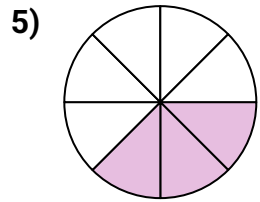
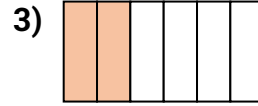
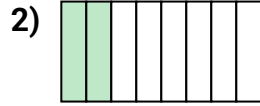


- A. two-quarters
- B. two-halves
- C. one-quarter

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



Write the shaded amount as a fraction of the whole amount.



Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

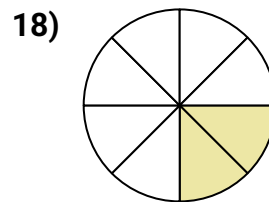
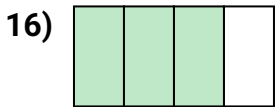
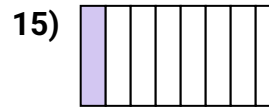
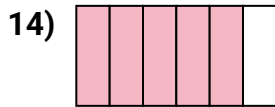
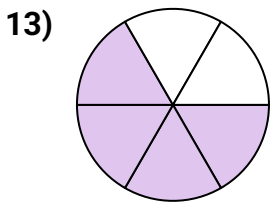
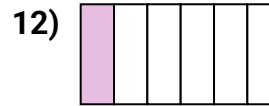
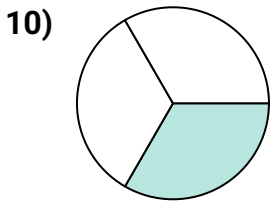
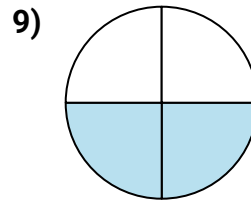
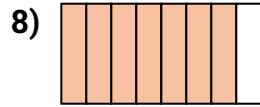
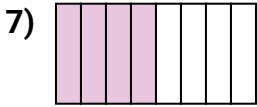
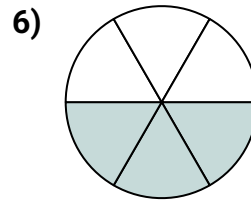
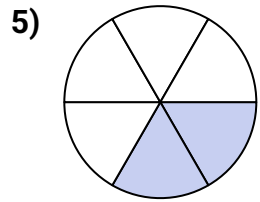
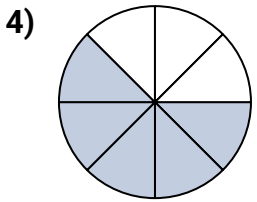
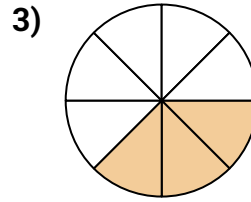
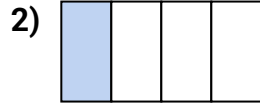
16. _____

17. _____

18. _____



Write the shaded amount as a fraction of the whole amount.

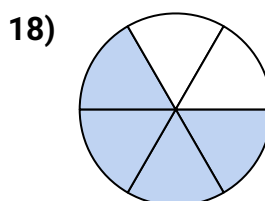
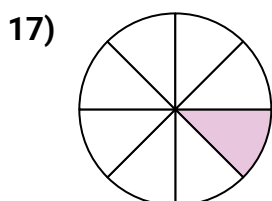
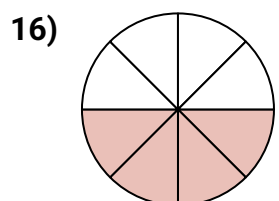
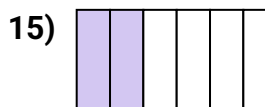
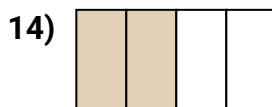
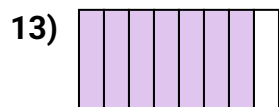
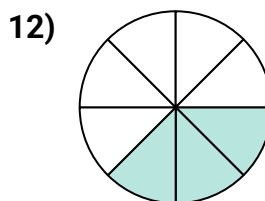
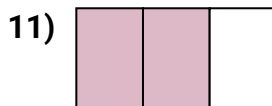
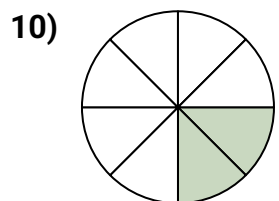
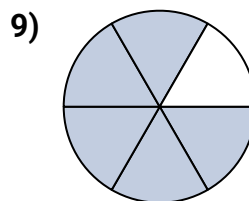
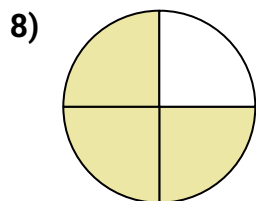
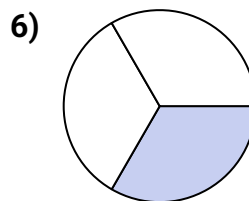
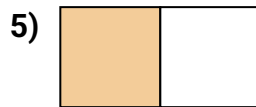
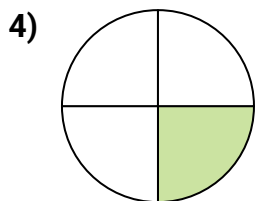
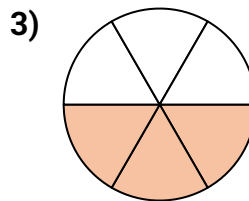
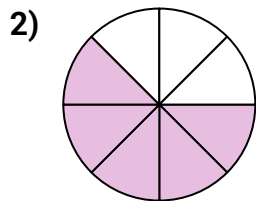
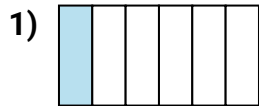


Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____

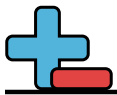


Write the shaded amount as a fraction of the whole amount.



Answers

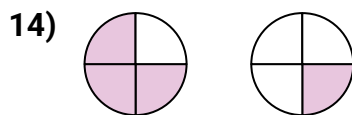
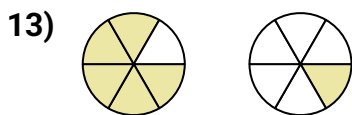
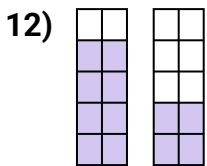
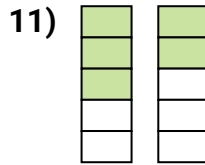
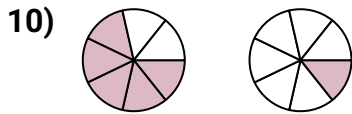
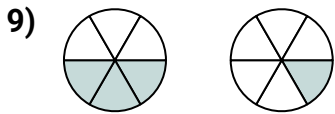
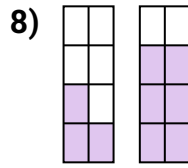
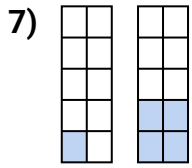
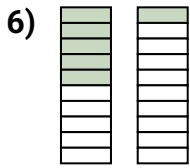
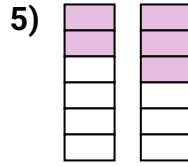
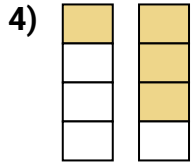
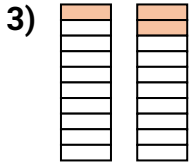
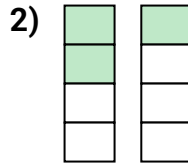
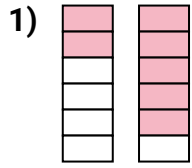
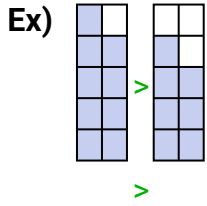
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____



Comparing Fractions

Name: _____

Compare the size of the fractions using $<$, $>$ or $=$.



Answers

Ex. $\frac{9}{10} > \frac{7}{10}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

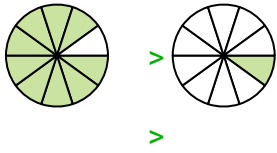


Comparing Fractions

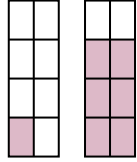
Name: _____

Compare the size of the fractions using $<$, $>$ or $=$.

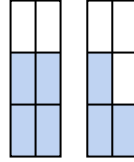
Ex)



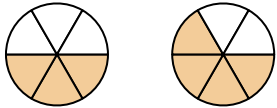
1)



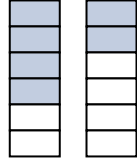
2)



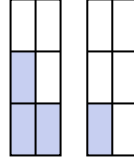
3)



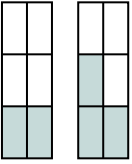
4)



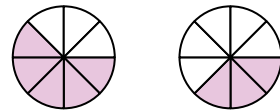
5)



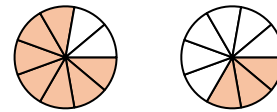
6)



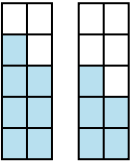
7)



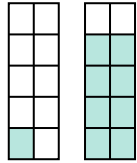
8)



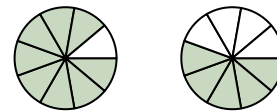
9)



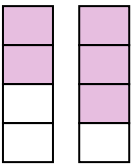
10)



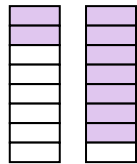
11)



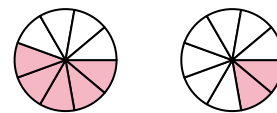
12)



13)



14)



Answers

Ex. $\frac{9}{10} > \frac{1}{10}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

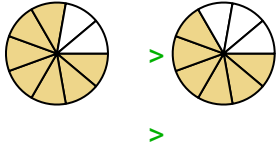


Comparing Fractions

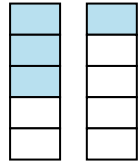
Name: _____

Compare the size of the fractions using $<$, $>$ or $=$.

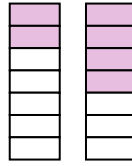
Ex)



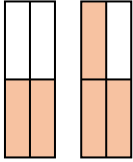
1)



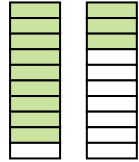
2)



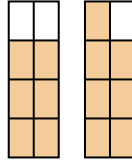
3)



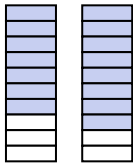
4)



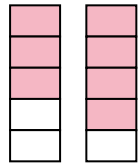
5)



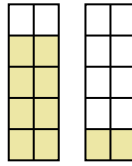
6)



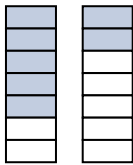
7)



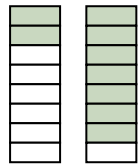
8)



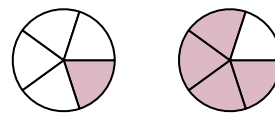
9)



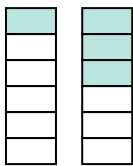
10)



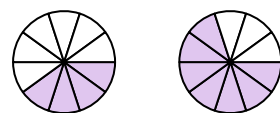
11)



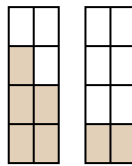
12)



13)



14)



Answers

Ex. $\frac{7}{9} > \frac{6}{9}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

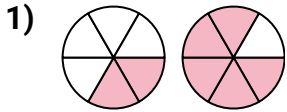
13. _____

14. _____

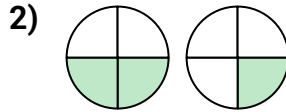


Determine which letter best compares the fractions shown.

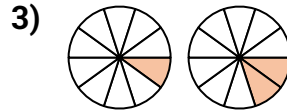
Answers



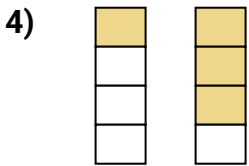
- A. $\frac{2}{6} < \frac{5}{6}$
- B. $\frac{6}{2} > \frac{6}{5}$
- C. $\frac{6}{2} < \frac{6}{5}$
- D. $\frac{2}{4} < \frac{5}{1}$



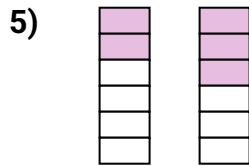
- A. $\frac{2}{4} < \frac{3}{4}$
- B. $\frac{2}{4} > \frac{3}{4}$
- C. $\frac{2}{4} > \frac{1}{4}$
- D. $\frac{2}{2} > \frac{1}{3}$



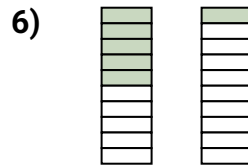
- A. $\frac{9}{10} > \frac{8}{10}$
- B. $\frac{10}{1} < \frac{10}{2}$
- C. $\frac{1}{10} < \frac{2}{10}$
- D. $\frac{10}{1} > \frac{10}{2}$



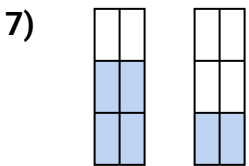
- A. $\frac{1}{3} < \frac{3}{1}$
- B. $\frac{3}{4} < \frac{1}{4}$
- C. $\frac{1}{4} < \frac{3}{4}$
- D. $\frac{4}{1} < \frac{4}{3}$



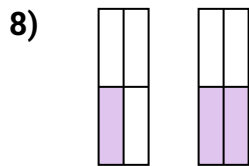
- A. $\frac{4}{6} < \frac{3}{6}$
- B. $\frac{2}{4} < \frac{3}{3}$
- C. $\frac{6}{2} > \frac{6}{3}$
- D. $\frac{2}{6} < \frac{3}{6}$



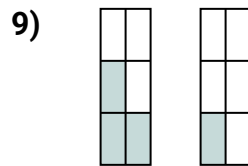
- A. $\frac{5}{10} < \frac{1}{10}$
- B. $\frac{5}{5} < \frac{1}{9}$
- C. $\frac{5}{10} > \frac{1}{10}$
- D. $\frac{10}{5} > \frac{10}{1}$



- A. $\frac{1}{5} < \frac{3}{5}$
- B. $\frac{5}{4} > \frac{5}{2}$
- C. $\frac{4}{5} > \frac{2}{5}$
- D. $\frac{4}{5} < \frac{2}{5}$



- A. $\frac{1}{4} < \frac{2}{4}$
- B. $\frac{4}{1} > \frac{4}{2}$
- C. $\frac{1}{3} > \frac{2}{2}$
- D. $\frac{1}{3} < \frac{2}{2}$



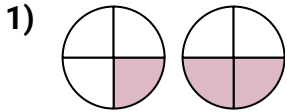
- A. $\frac{3}{6} < \frac{5}{6}$
- B. $\frac{3}{6} > \frac{1}{6}$
- C. $\frac{6}{3} < \frac{6}{1}$
- D. $\frac{6}{3} > \frac{6}{1}$

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____

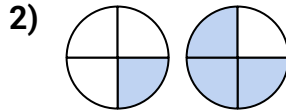


Determine which letter best compares the fractions shown.

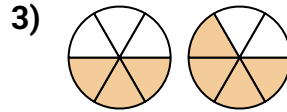
Answers



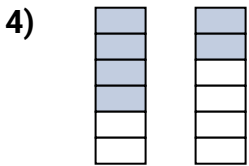
- A. $\frac{1}{4} < \frac{2}{4}$
- B. $\frac{1}{4} > \frac{2}{4}$
- C. $\frac{4}{1} < \frac{4}{2}$
- D. $\frac{3}{4} > \frac{2}{4}$



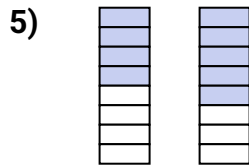
- A. $\frac{3}{4} > \frac{1}{4}$
- B. $\frac{4}{1} < \frac{4}{3}$
- C. $\frac{1}{4} < \frac{3}{4}$
- D. $\frac{1}{3} < \frac{3}{1}$



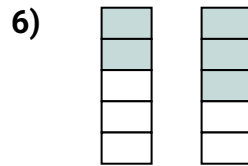
- A. $\frac{3}{6} > \frac{4}{6}$
- B. $\frac{3}{6} < \frac{4}{6}$
- C. $\frac{3}{3} < \frac{4}{2}$
- D. $\frac{3}{6} < \frac{2}{6}$



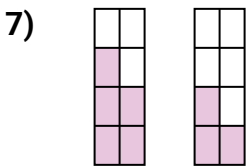
- A. $\frac{6}{4} > \frac{6}{2}$
- B. $\frac{4}{6} > \frac{2}{6}$
- C. $\frac{2}{6} < \frac{4}{6}$
- D. $\frac{6}{4} < \frac{6}{2}$



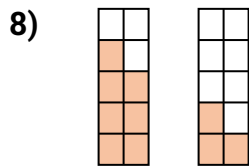
- A. $\frac{8}{4} < \frac{8}{5}$
- B. $\frac{8}{4} > \frac{8}{5}$
- C. $\frac{4}{8} < \frac{3}{8}$
- D. $\frac{4}{8} < \frac{5}{8}$



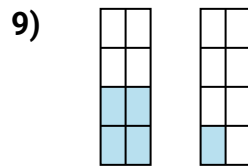
- A. $\frac{3}{5} < \frac{2}{5}$
- B. $\frac{2}{5} < \frac{3}{5}$
- C. $\frac{5}{2} < \frac{5}{3}$
- D. $\frac{2}{5} > \frac{3}{5}$



- A. $\frac{5}{8} < \frac{3}{8}$
- B. $\frac{5}{8} > \frac{3}{8}$
- C. $\frac{3}{8} > \frac{5}{8}$
- D. $\frac{8}{5} > \frac{8}{3}$



- A. $\frac{2}{9} > \frac{6}{9}$
- B. $\frac{2}{9} < \frac{6}{9}$
- C. $\frac{9}{7} < \frac{9}{3}$
- D. $\frac{7}{9} > \frac{3}{9}$



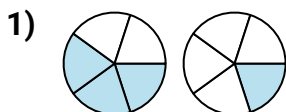
- A. $\frac{7}{4} > \frac{7}{1}$
- B. $\frac{4}{3} > \frac{1}{6}$
- C. $\frac{3}{7} < \frac{6}{7}$
- D. $\frac{4}{7} > \frac{1}{7}$

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____

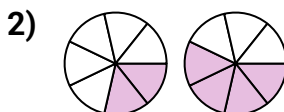


Determine which letter best compares the fractions shown.

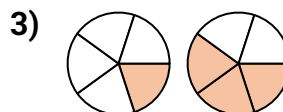
Answers



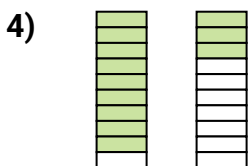
- A. $\frac{3}{2} > \frac{1}{4}$
- B. $\frac{2}{5} < \frac{4}{5}$
- C. $\frac{3}{5} > \frac{1}{5}$
- D. $\frac{5}{3} > \frac{5}{1}$



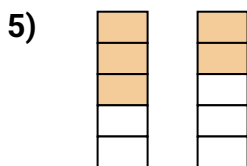
- A. $\frac{2}{5} > \frac{4}{3}$
- B. $\frac{7}{2} > \frac{7}{4}$
- C. $\frac{7}{2} < \frac{7}{4}$
- D. $\frac{2}{7} < \frac{4}{7}$



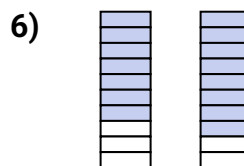
- A. $\frac{1}{5} < \frac{3}{5}$
- B. $\frac{5}{1} < \frac{5}{3}$
- C. $\frac{4}{5} < \frac{2}{5}$
- D. $\frac{5}{1} > \frac{5}{3}$



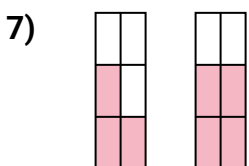
- A. $\frac{1}{10} < \frac{7}{10}$
- B. $\frac{9}{1} < \frac{3}{7}$
- C. $\frac{1}{10} > \frac{7}{10}$
- D. $\frac{9}{10} > \frac{3}{10}$



- A. $\frac{3}{2} < \frac{2}{3}$
- B. $\frac{2}{5} < \frac{3}{5}$
- C. $\frac{5}{3} > \frac{5}{2}$
- D. $\frac{3}{5} > \frac{2}{5}$



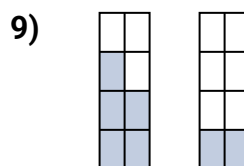
- A. $\frac{7}{10} < \frac{8}{10}$
- B. $\frac{7}{3} < \frac{8}{2}$
- C. $\frac{7}{10} > \frac{8}{10}$
- D. $\frac{3}{10} < \frac{2}{10}$



- A. $\frac{3}{5} < \frac{4}{5}$
- B. $\frac{3}{2} > \frac{4}{1}$
- C. $\frac{3}{2} < \frac{4}{1}$
- D. $\frac{5}{3} < \frac{5}{4}$



- A. $\frac{5}{10} < \frac{8}{10}$
- B. $\frac{5}{5} > \frac{8}{2}$
- C. $\frac{5}{10} > \frac{2}{10}$
- D. $\frac{5}{5} < \frac{8}{2}$



- A. $\frac{5}{7} > \frac{2}{7}$
- B. $\frac{5}{2} > \frac{2}{5}$
- C. $\frac{5}{7} < \frac{2}{7}$
- D. $\frac{5}{2} < \frac{2}{5}$

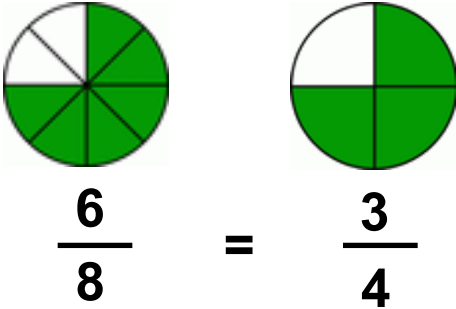
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Equivalent fractions

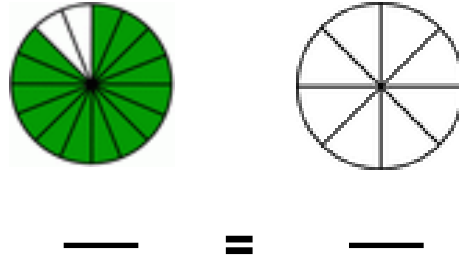
Grade 4 Fractions Worksheet

Color in the second fraction so it is equivalent to the first fraction, then write in the numerators and denominators of both fractions.

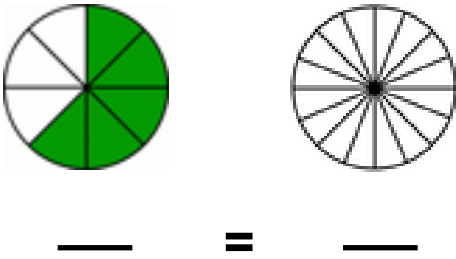
1)



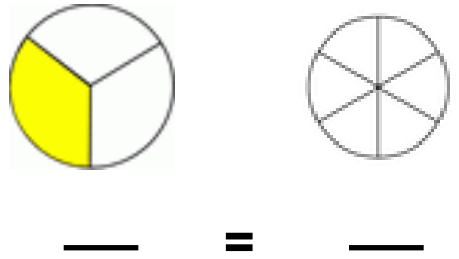
2)



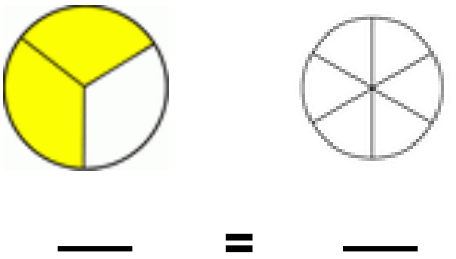
3)



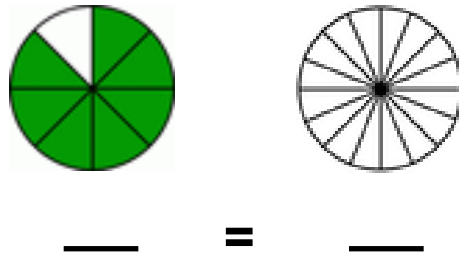
4)



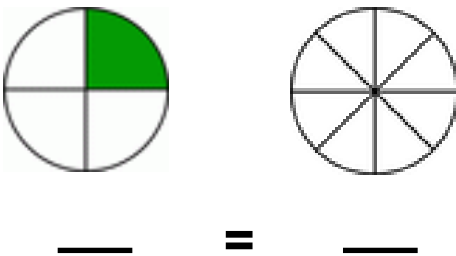
5)



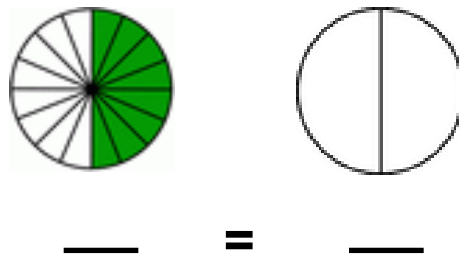
6)



7)



8)

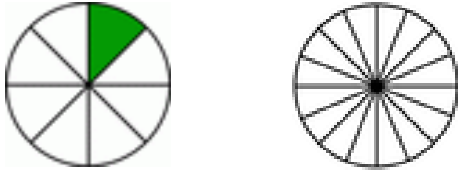


Equivalent fractions

Grade 4 Fractions Worksheet

Color in the second fraction so it is equivalent to the first fraction, then write in the numerators and denominators of both fractions.

1)



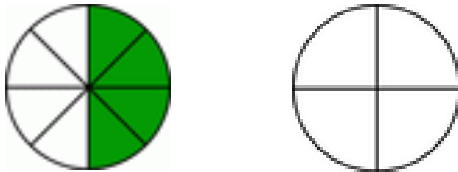
— = —

2)



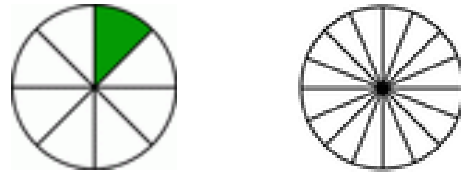
— = —

3)



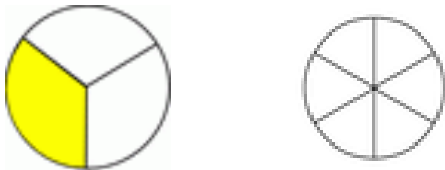
— = —

4)



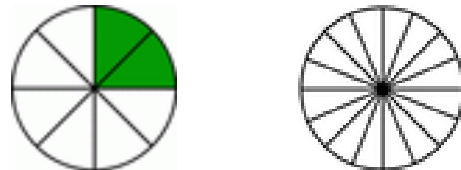
— = —

5)



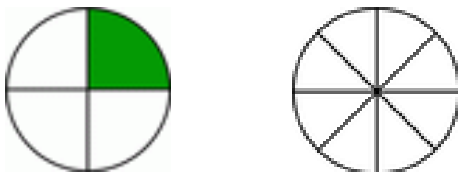
— = —

6)



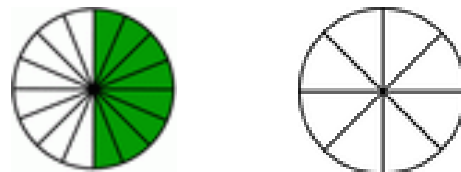
— = —

7)



— = —

8)



— = —

Equivalent fractions

Grade 4 Fractions Worksheet

Color in the second fraction so it is equivalent to the first fraction, then write in the numerators and denominators of both fractions.

1)



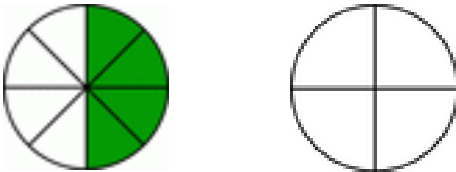
— = —

2)



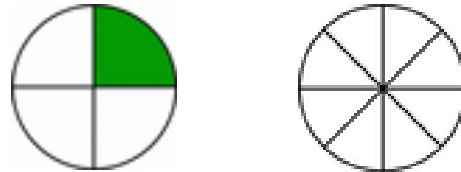
— = —

3)



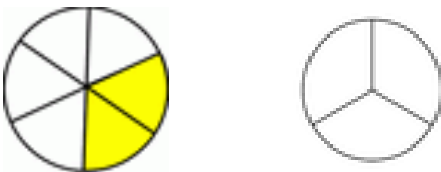
— = —

4)



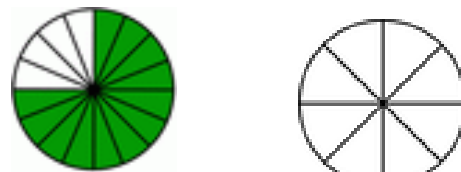
— = —

5)



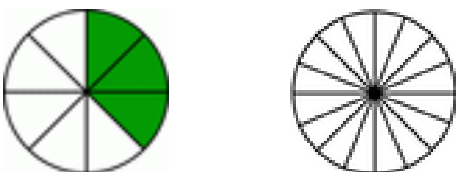
— = —

6)



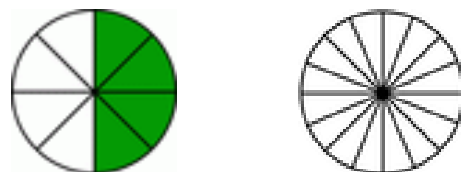
— = —

7)



— = —

8)



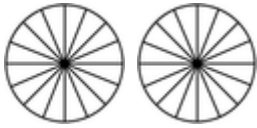
— = —

Comparing proper & improper fractions

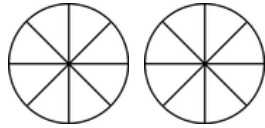
Grade 4 Fractions Worksheet

Write > (greater than), < (less than) or = (equal to) between the fractions. Color in the fractions if it helps.

1)



$$\frac{18}{16}$$

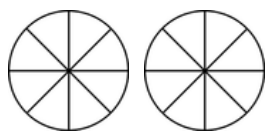


$$\frac{9}{8}$$

3)

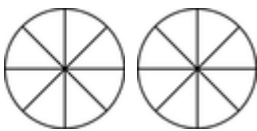


$$\frac{14}{16}$$

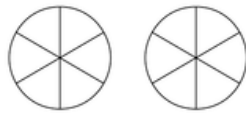


$$\frac{11}{8}$$

5)

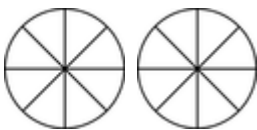


$$\frac{10}{8}$$

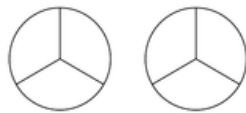


$$\frac{8}{6}$$

7)



$$\frac{9}{8}$$

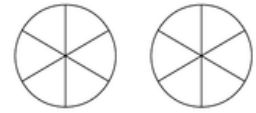


$$\frac{4}{3}$$

2)

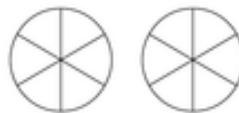


$$\frac{5}{3}$$

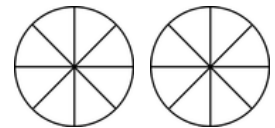


$$\frac{7}{6}$$

4)

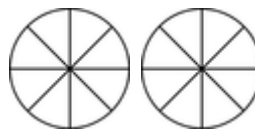


$$\frac{7}{6}$$

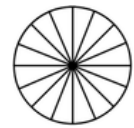


$$\frac{9}{8}$$

6)

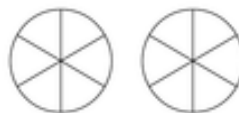


$$\frac{9}{8}$$

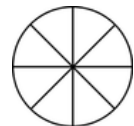


$$\frac{15}{16}$$

8)



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



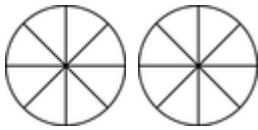
$$\frac{7}{8}$$

Comparing proper & improper fractions

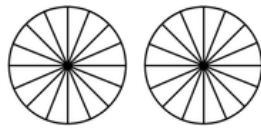
Grade 4 Fractions Worksheet

Write > (greater than), < (less than) or = (equal to) between the fractions. Color in the fractions if it helps.

1)



$$\frac{13}{8}$$

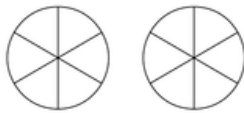


$$\frac{26}{16}$$

3)

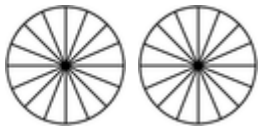


$$\frac{12}{16}$$

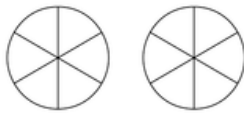


$$\frac{7}{6}$$

5)



$$\frac{21}{16}$$



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

7)

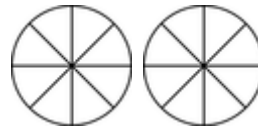


$$\frac{14}{16}$$

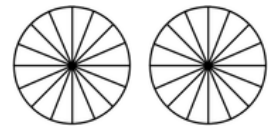


$$\frac{4}{3}$$

2)

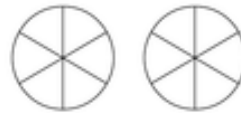


$$\frac{10}{8}$$



$$\frac{20}{16}$$

4)



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

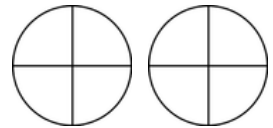


$$\frac{4}{3}$$

6)



$$\frac{14}{16}$$

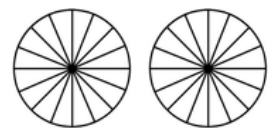


$$\frac{5}{4}$$

8)



$$\frac{7}{4}$$



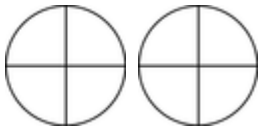
$$\frac{28}{16}$$

Comparing proper & improper fractions

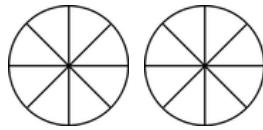
Grade 4 Fractions Worksheet

Write > (greater than), < (less than) or = (equal to) between the fractions. Color in the fractions if it helps.

1)

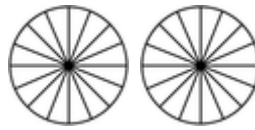


$$\frac{5}{4}$$

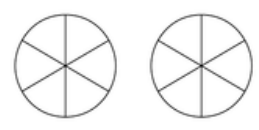


$$\frac{11}{8}$$

2)



$$\frac{18}{16}$$



$$\frac{7}{6}$$

3)

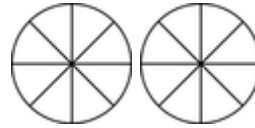


$$\frac{13}{16}$$

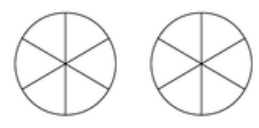


$$\frac{4}{3}$$

4)



$$\frac{12}{8}$$

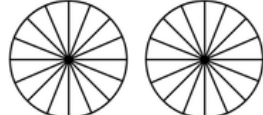


$$\frac{9}{6}$$

5)

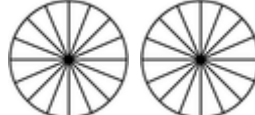


$$\frac{5}{6}$$

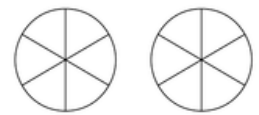


$$\frac{19}{16}$$

6)



$$\frac{21}{16}$$

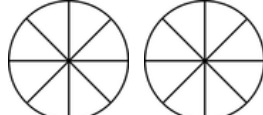


$$\frac{8}{6}$$

7)

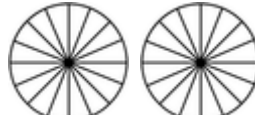


$$\frac{2}{3}$$

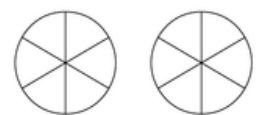


$$\frac{11}{8}$$

8)



$$\frac{27}{16}$$



$$\frac{10}{6}$$