

LESSON
7

Number Theory and Fractions

Practice B: Comparing and Ordering Fractions

Compare. Write <, >, or =.

1. $\frac{4}{7} \text{ — } \frac{3}{5}$

2. $\frac{1}{8} \text{ — } \frac{2}{3}$

3. $\frac{1}{4} \text{ — } \frac{2}{5}$

4. $\frac{7}{8} \text{ — } \frac{5}{6}$

5. $\frac{18}{24} \text{ — } \frac{3}{4}$

6. $\frac{4}{5} \text{ — } \frac{8}{12}$

Order the fractions from least to greatest.

7. $\frac{1}{2}, \frac{2}{5}, \frac{1}{3}$

8. $\frac{2}{5}, \frac{3}{4}, \frac{2}{3}$

9. $\frac{3}{7}, \frac{5}{6}, \frac{4}{5}$

10. $\frac{5}{9}, \frac{3}{7}, \frac{2}{3}$

11. $\frac{3}{8}, \frac{2}{7}, \frac{3}{5}$

12. $\frac{2}{7}, \frac{1}{8}, \frac{2}{5}$

Order the fractions from greatest to least.

13. $\frac{1}{6}, \frac{2}{7}, \frac{1}{5}$

14. $\frac{3}{7}, \frac{4}{9}, \frac{2}{3}$

15. $\frac{2}{5}, \frac{3}{10}, \frac{2}{3}$

16. $\frac{4}{5}, \frac{7}{10}, \frac{1}{12}$

17. $\frac{3}{8}, \frac{3}{4}, \frac{4}{9}$

18. $\frac{4}{7}, \frac{3}{5}, \frac{5}{6}$

19. David ran $4\frac{1}{4}$ miles, Shane ran $4\frac{1}{2}$ miles, and Matt ran $4\frac{5}{8}$ miles.
Who ran the farthest?

20. Darius and Anita both took the same test. Darius answered $\frac{5}{6}$ of the questions correctly, and Anita answered $\frac{6}{7}$ correctly. Who got the higher score on the test?

Challenge

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

Problem Solving

1. $2\frac{1}{2}$ times
2. $\$ \frac{232}{25}$; \$9.28
3. $\frac{268}{5}$ °F to $\frac{322}{5}$ °F
4. 5 ounces to $5\frac{1}{4}$ ounces
5. C
6. F
7. B
8. J

Reading Strategies

1. a number made up of a whole number and a fraction
2. Possible answer: because a whole number and a fraction are two different types of numbers
3. a fraction that has a numerator greater than the denominator
4. Possible answer: because it is actually more than a fraction.
5. mixed number
6. improper fraction
7. improper fraction
8. mixed number

Puzzles, Twisters & Teasers

Send					
$\frac{1}{8}$	$\frac{1}{16}$	$\frac{7}{3}$	$2\frac{7}{8}$	$\frac{17}{5}$	$2\frac{15}{16}$
$\frac{3}{16}$	$1\frac{1}{2}$	$1\frac{3}{5}$	$1\frac{1}{8}$	$3\frac{3}{4}$	$\frac{25}{8}$
$\frac{1}{8}$	$\frac{5}{4}$	$1\frac{1}{2}$	$\frac{16}{4}$	$\frac{33}{8}$	$4\frac{1}{16}$
$\frac{25}{5}$	$\frac{47}{9}$	$4\frac{5}{6}$	$\frac{9}{2}$	$4\frac{3}{16}$	$\frac{31}{8}$
$5\frac{1}{6}$	$5\frac{1}{8}$	$\frac{9}{2}$	$4\frac{1}{3}$	$4\frac{1}{8}$	$4\frac{8}{9}$
$\frac{11}{2}$	$\frac{35}{6}$	$\frac{25}{4}$	$6\frac{2}{7}$	$6\frac{1}{4}$	$\frac{27}{5}$
$\frac{20}{3}$	$5\frac{5}{9}$	$\frac{18}{3}$	$\frac{14}{2}$	$6\frac{1}{2}$	$6\frac{7}{11}$
$\frac{31}{4}$	$\frac{58}{7}$	$7\frac{6}{7}$	$8\frac{5}{8}$	$8\frac{7}{16}$	$\frac{23}{3}$
$8\frac{1}{8}$	$\frac{17}{2}$	$\frac{88}{11}$	$\frac{37}{4}$	$\frac{9}{1}$	$\frac{70}{7}$
$9\frac{1}{16}$	$9\frac{1}{8}$	$9\frac{3}{16}$	$9\frac{2}{5}$	$\frac{59}{6}$	$10\frac{1}{5}$
Receive					

Answers for Lesson 7

Practice A

1. <
2. <
3. =
4. <
5. =
6. <
7. >
8. >
9. <
10. $\frac{1}{9}, \frac{2}{9}, \frac{7}{9}$
11. $\frac{1}{4}, \frac{1}{3}, \frac{2}{3}$
12. $\frac{1}{10}, \frac{2}{5}, \frac{1}{2}$
13. $\frac{3}{5}, \frac{2}{5}, \frac{1}{5}$
14. $\frac{6}{7}, \frac{3}{6}, \frac{2}{7}$
15. $\frac{5}{6}, \frac{2}{3}, \frac{1}{6}$
16. the Pirates
17. She saves it.

Practice B

1. <
2. <
3. <
4. >
5. =
6. >
7. $\frac{1}{3}, \frac{2}{5}, \frac{1}{2}$
8. $\frac{2}{5}, \frac{2}{3}, \frac{3}{4}$

9. $\frac{3}{7}, \frac{4}{5}, \frac{5}{6}$

10. $\frac{3}{7}, \frac{5}{9}, \frac{2}{3}$

11. $\frac{2}{7}, \frac{3}{8}, \frac{3}{5}$

12. $\frac{1}{8}, \frac{2}{7}, \frac{2}{5}$

13. $\frac{2}{7}, \frac{1}{5}, \frac{1}{6}$

14. $\frac{2}{3}, \frac{4}{9}, \frac{3}{7}$

15. $\frac{2}{3}, \frac{2}{5}, \frac{3}{10}$

16. $\frac{4}{5}, \frac{7}{10}, \frac{1}{12}$

17. $\frac{3}{4}, \frac{4}{9}, \frac{3}{8}$

18. $\frac{5}{6}, \frac{3}{5}, \frac{4}{7}$

19. Matt

20. Anita

Practice C

1. <

2. <

3. >

4. <

5. =

6. <

7. $\frac{2}{7}, \frac{3}{8}, \frac{4}{9}$

8. $\frac{6}{11}, \frac{3}{4}, \frac{4}{5}$

9. $\frac{2}{7}, \frac{3}{9}, \frac{6}{7}$

10. $\frac{2}{3}, \frac{5}{6}, \frac{9}{10}$

11. $\frac{5}{8}, \frac{13}{15}, \frac{8}{9}$

12. $\frac{7}{10}, \frac{6}{7}, \frac{12}{13}$

13. $\frac{5}{6}, \frac{2}{3}, \frac{4}{7}$

14. $\frac{11}{13}, \frac{5}{7}, \frac{7}{10}$

15. $\frac{10}{13}, \frac{5}{8}, \frac{9}{15}$

16. $\frac{7}{9}, \frac{11}{17}, \frac{5}{8}$

17. $\frac{6}{7}, \frac{5}{6}, \frac{5}{9}$

18. $\frac{4}{7}, \frac{3}{8}, \frac{2}{9}$

19. Grady

20. The team won same number of games each year.

Review for Mastery

1. <

2. >

3. >

4. >

5. $\frac{1}{4}, \frac{4}{8}, \frac{7}{12}$

6. $\frac{2}{8}, \frac{7}{12}, \frac{2}{3}$

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

8. $\frac{1}{3}, \frac{5}{12}, \frac{5}{6}$

Challenge

Mammal
Pygmy shrew
Pipistrelle bat
Kitti's hog-nosed bat
Harvest mouse
Masked shrew

Problem Solving

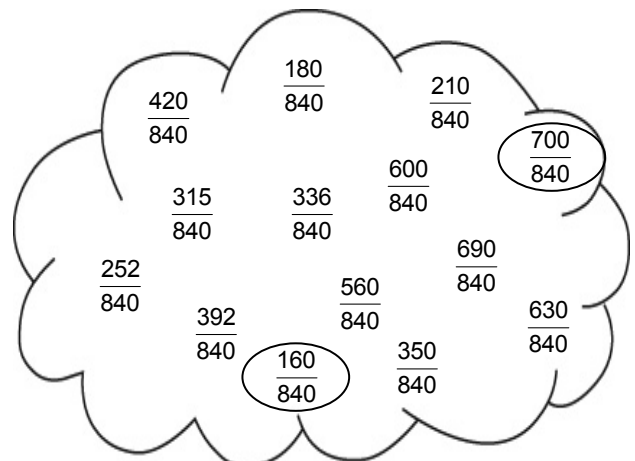
- Asia
- Australia
- Change $\frac{1}{20}$ to $\frac{5}{100}$ and then compare it to $\frac{7}{100}$.

- A
- J
- A
- H

Reading Strategies

- <
- >
- >
- Possible answer: The fraction with the greater numerator has the greater value.
- <
- >
- =
- <
- >
- >
- <
- <
- <
- =
- =
- >

Puzzles, Twisters & Teasers



S H U F F L E S W A L K S