Number Theory and Fractions

Practice A: Comparing and Ordering Fractions

Compare. Write <, >, or =.

1. $\dfrac{1}{6}$ — $\dfrac{2}{6}$

2. $\dfrac{1}{3}$ — $\dfrac{2}{3}$

3. $\dfrac{2}{4}$ — $\dfrac{1}{2}$

4. $\dfrac{1}{2}$ — $\dfrac{3}{4}$

5. $\dfrac{4}{6}$ — $\dfrac{2}{3}$

6. $\dfrac{1}{5}$ — $\dfrac{2}{3}$

7. $\dfrac{1}{2}$ — $\dfrac{2}{5}$

8. $\dfrac{3}{4}$ — $\dfrac{3}{5}$

9. $\dfrac{1}{9}$ — $\dfrac{1}{8}$

Order the fractions from least to greatest.

10. $\dfrac{7}{9}, \dfrac{1}{9}, \dfrac{2}{9}$

11. $\dfrac{1}{3}, \dfrac{1}{4}, \dfrac{2}{3}$

12. $\dfrac{2}{5}, \dfrac{1}{2}, \dfrac{1}{10}$

_____   _____   _____

Order the fractions from greatest to least.

13. $\dfrac{1}{5}, \dfrac{3}{5}, \dfrac{2}{5}$

14. $\dfrac{2}{7}, \dfrac{6}{7}, \dfrac{3}{6}$

15. $\dfrac{1}{6}, \dfrac{2}{3}, \dfrac{5}{6}$

_____   _____   _____

16. The Mountain Cats and the Pirates have both played the same number of games. The Mountain Cats have won $\dfrac{1}{5}$ of their games, and the Pirates have won $\dfrac{1}{4}$ of their games. Which team has the most wins?

_____

17. Each week, Kelly saves $\dfrac{1}{2}$ of her allowance. She spends $\dfrac{1}{3}$ of her allowance on food, and $\dfrac{1}{6}$ of it on games and movies. What does Kelly do with the largest part of her allowance?

_____

Holt McDougal Mathematics

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

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

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