Lesson 2 Homework Practice

Rational Numbers

Write each number as a fraction.

1. 29

2. 0

3. $3\frac{7}{8}$

4. -47

5. $-5\frac{6}{7}$

6. $4\frac{3}{20}$

7. $-7\frac{2}{15}$

8. $10\frac{2}{9}$

9. 15

Write each decimal as a fraction or mixed number in simplest form.

10. 0.32

11. 0.42

12. $0.\overline{8}$

13. $-6.\overline{3}$

14. 0.91

15. 17.875

16. $-0.666...$

17. $0.\overline{07}$

18. $9.\overline{7}$

19. $7.\overline{75}$

20. 0.525

21. -8.26

22. $6.\overline{5}$

23. -4.12

24. 13.006

Identify all sets to which each number belongs.

25. 15

26. $-3.\overline{8}$

27. -5.075

28. $\frac{50}{25}$

29. π

30. $-\frac{4}{2}$

31. The smallest flowering plant is the flowering aquatic duckweed found in Australia. It is 0.0236 inch long and 0.0129 inch wide. Write these dimensions as fractions in simplest form.

Lesson 2 Problem-Solving Practice

Rational Numbers

1. One weekend, Nate compared his history homework to his younger sister Caroline's social studies homework. He found that for every $2\frac{1}{3}$ pages he had to read for homework, Caroline had to read one page for homework. How many pages did Nate read for every three pages Caroline read?

2. One foot is equivalent to 30.48 centimeters. Write this value as a mixed number in simplest form.

3. Earth has a surface area of approximately 197,000,000 square miles and a total land area of approximately 58,000,000 square miles. What fraction of the Earth's surface is land? Write another fraction that is close to your answer and has a denominator of 10.

4. Use the table of 6-ounce yogurt prices to answer the questions below.

Yogurt A	7 for $4.00
Yogurt B	$0.55 each

What is the unit price for Yogurt A expressed as a fraction? Which yogurt is the better deal?

5. Jade is studying fractions and decimals in her math class. While working on homework one night, she noticed a pattern when she wrote each of the following decimals as fractions: $0.\overline{5}$, $0.\overline{7}$, $0.\overline{28}$, and $0.\overline{71}$. Write each of Jade's decimals as fractions.

6. Refer to the information in Exercise 5. Use Jade's pattern to predict how to write $0.\overline{416}$ as a fraction. Check your answer using a different method.