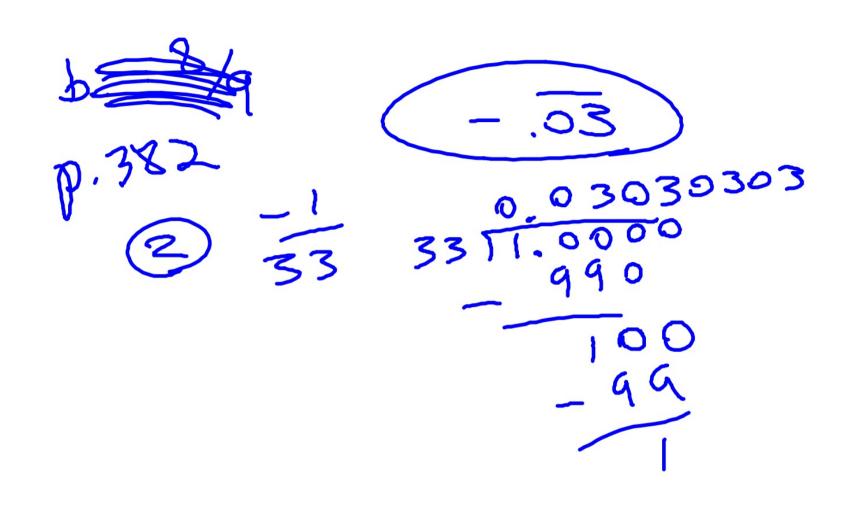
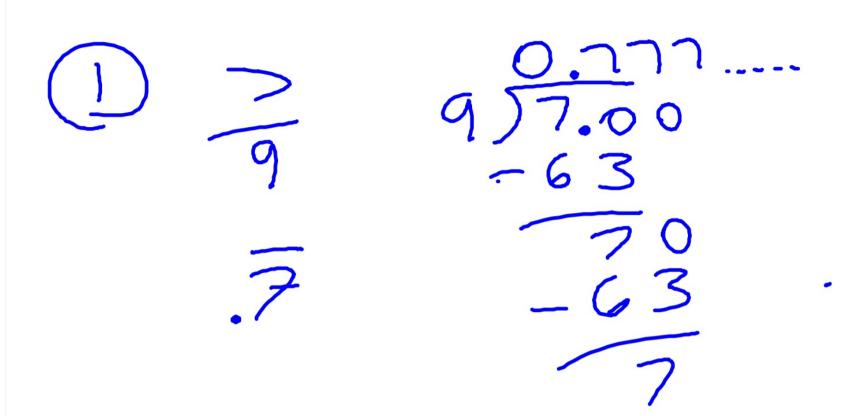
0.15666.... 51.000





3)-25 6)5.000 -48 2\ -18 -20 20 -2.83

Write each fraction as a decimal. Use bar notation if necessary. (Examples 1-3)

1.
$$\frac{7}{9} = 0.7$$

2.
$$-\frac{1}{33} = -0.\overline{03}$$

3.
$$-2\frac{5}{6} = -2.8\overline{3}$$

4.
$$\frac{10}{15} = 0.\overline{6}$$

5.
$$-\frac{4}{5} = -0.8$$

6.
$$1\frac{5}{9} = 1.5$$

- 7. Dana bought $\frac{2}{3}$ yard of fabric to make a new purse. Write the amount of fabric she used as a decimal. (Example 4)

 0.6

Rate Yourself!

Are you ready to move on? Shade the section that ap



For more help, go online to

Independent Practice



Write each fraction as a decimal. Use bar notation if necessary.

(Examples 1-3)



2.
$$\frac{8}{18} = 0.\overline{4}$$

3.
$$-\frac{8}{12} = -0.\overline{6}$$



4.
$$-\frac{6}{7} = -0.857142$$

5.
$$3\frac{15}{44} = 3.34\overline{09}$$

6.
$$-2\frac{5}{22} = -2.2\overline{27}$$

7. Sarafina had 34 out of 99 hits when she was at bat during the softball season. What was her batting average? (Example 4)

 $0.\overline{34}$

8. Shiv and his friends ate $3\frac{1}{6}$ pizzas. Write this amount as a decimal. (Example 4)

3.16

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

9.
$$-0.9 = -\frac{9}{10}$$

10.
$$-0.85 = -\frac{17}{20}$$

11.
$$-3.8 = \frac{-3\frac{4}{5}}{5}$$

Evaluate each expression.

12.
$$|-2.3| = \frac{2.3}{2.3}$$

$$\left| \frac{4}{13} \right| = \frac{4}{13}$$

14.
$$\left| -8\frac{7}{11} \right| = \frac{8\frac{7}{11}}{11}$$

There are over 2,700 species of snakes in the world. Over 600 species are venomous. Write the fraction of species that are not venomous as a decimal. 0.7

16. Sustify Conclusions The ratio of the distance around a circle to the distance across a circle through its center is represented by the number π . The number π is a decimal that does not repeat. The fraction $\frac{22}{7}$ is sometimes used as an estimate for π . Is $\frac{22}{7}$ a repeating decimal? Explain.

yes; The fraction $\frac{22}{7}$ can be represented as 3.142857 by dividing with a calculator.

- a. How many total photos were taken? 43
- **b.** What fraction of the photos were taken after school? Write this fraction as a decimal. Round to the nearest thousandth. $\frac{24}{43}$; 0.558



H.O.T. Problems Higher Order Thinking

- 18.
 Sample answer: $-\frac{2}{3}$; The number is negative, but because the denominator is not 1, it is not an integer.
- 19. Persevere with Problems Predict whether or not the decimal equivalent to ¹⁷/₃₆ is terminating. Explain your reasoning. Check your prediction with a calculator. ¹⁷/₃₆ is not a terminating decimal since decimals are based on powers of 10 and 36 is not a factor of any power of 10.
- 20. Which One Doesn't Belong? Identify the decimal equivalent that does not have the same characteristic as the other three. Explain.

1/12

2 12

3 12

4/12

 $\frac{3}{12}$; Its decimal equivalent is a terminating decimal.