Name: Period: Score:_____/_____=_____%=_____

HW 2-2

Int 1 **Terminating/Repeating Decimals** **Unit 2**

Write each fraction or mixed number as a decimal. Use bar notation if needed.

1. $-4\frac{4}{25}$ -4.16

2. $\frac{1}{8}$

3. $-\frac{33}{50}$ -0.66

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

5. $\frac{5}{6}$ $0.8\overline{3}$

6. $-\frac{8}{11}$

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

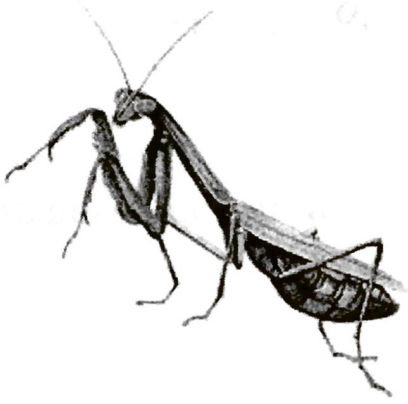
7. –0.2 $-\frac{1}{5}$

8. 0.55

9. 5.96 $5\frac{24}{25}$

10. The screen on Brianna's new phone is 2.85 centimeters long. What mixed number represents the length of the phone screen?

11. A praying mantis is an interesting insect that can rotate its head 180 degrees. Suppose a praying mantis is 10.5 centimeters long. What mixed number represents this length? $10\frac{1}{2}$



12. Suppose you buy a 1.25-pound package of ham at $5.20 per pound.
    a. What fraction of a pound did you buy?

    b. How much money did you spend?

13. Write a fraction that is equivalent to a terminating decimal between 0.5 and 0.75.

Answers May Vary

Example: $.6 = \frac{6}{10} = \frac{3}{5}$

Write each fraction or mixed number as a decimal. Use bar notation if needed.

14. $\frac{4}{5}$

16. $-\frac{4}{9}$

15. $-7\frac{1}{20}$ $= -7.05$

17. $5\frac{1}{3} = 5.\overline{3}$

18. The fraction of a dime that is made up of copper is $\frac{12}{16}$. Write this fraction as a decimal.

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

19. -0.9

$-\frac{9}{10}$

20. 0.34

21. 2.66

$2\frac{33}{50}$

Write each of the following as an improper fraction.

22. -13

23. $7\frac{1}{3}$

22/3

[redacted]

24. -3.2

25. Nicolas practiced played the cello for 2 hours and 18 minutes. Write the time Nicolas spent practicing as a decimal.

2.3 hours

26. The table to the right shows equivalent decimals and fractions. Based off of what you see in the table, which fraction below represents $0.\overline{8}$?

a. $\frac{4}{5}$ c. $\frac{80}{99}$

b. $\frac{5}{6}$ d. $\frac{8}{9}$

Decimal	$0.\overline{3}$	$0.\overline{4}$	$0.\overline{5}$	$0.\overline{6}$
Fraction	$\frac{3}{9}$	$\frac{4}{9}$	$\frac{5}{9}$	$\frac{6}{9}$

27. The table below shows the length of four hiking trails. Which trail length is equivalent to $1.\overline{3}$ miles?

(a.) Forest Lane
b. Lakeview
c. Mountain Climb
d. Sparrow Stroll

HIKING TRAILS

Lakeview..... $1\frac{1}{4}$ mi	Sparrow Stroll..... $1\frac{3}{10}$ mi
Forest Lane... $1\frac{1}{3}$ mi	Mountain Climb.... $1\frac{2}{3}$ mi

28. Zoe went on a hike with her family. Her Fitbit says that they hiked 12.05 miles. Zoe wants to know what fraction that would be. Which mixed number below represents how far Zoe hiked with her family (**in simplest form**)?

a. $12\frac{1}{2}$ miles c. $12\frac{5}{10}$ miles

(b.) $12\frac{1}{20}$ miles d. $12\frac{5}{100}$ mile

Round each decimal to the tenths place.

29. $5.69 \approx$ 5.7 30. $0.05 \approx$ _____ 31. $98.99 \approx$ 99.0

Extra Credit

32. The table shows the discount on athletic shoes at two stores selling sporting equipment. Which store is offering the greater discount? Explain.

STORE	DISCOUNT
Good Sports	$\frac{1}{5}$
Go Time	25%

_____

_____

_____

_____