

HW 4-1 Rational Numbers

Write each fraction or mixed number as a decimal.

1. $\frac{2}{5}$ 0.4

3. $\frac{33}{40}$ 0.825

5. $-\frac{6}{11}$ -0.54

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

4. $\frac{4}{33}$

6. $-7\frac{8}{8}$

7. The table shows statistics about the students at Carter Junior High.

| Number of Siblings | Fraction of Students |
|--------------------|----------------------|
| None | $\frac{1}{15}$ |
| One | $\frac{1}{3}$ |
| Two | $\frac{5}{12}$ |
| Three | $\frac{1}{6}$ |
| Four or more | $\frac{1}{60}$ |

a. Express the fraction of students with no siblings as a decimal.

0.06

b. Find the decimal equivalent for the fraction of students with three siblings.

c. Write the fraction of students with one sibling as a decimal. Round to the nearest thousandth.

0.333

d. Write the fraction of students with two siblings as a decimal. Round to the nearest thousandth.

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

8. -0.4

10. $0.\overline{2}$

12. $2.\overline{7}$

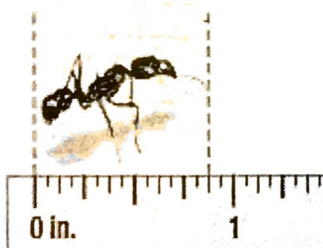
9. -7.32 $-7\frac{8}{25}$

11. $-0.\overline{45}$ $-\frac{5}{11}$

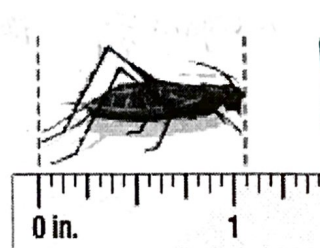
13. 5.55
 $5\frac{11}{20}$

Write the length of each insect as a fraction or mixed number and as a decimal.

14.



15.



$\frac{1}{16}$ → 1.0625 in.

16. Which of the following is equivalent to the fraction below?

$$\frac{13}{5}$$

- (A) 2.4 (B) 2.45 (C) 2.55 (D) 2.6

Write each fraction or mixed number as a decimal.

17. $\frac{4}{5}$ 0.8

18. $5\frac{5}{16}$

19. $-6\frac{13}{15}$
-6.8 $\overline{6}$

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

20. -1.55

21. $3.\overline{8}$

22. -0.09


$3\frac{8}{9}$

Write the rainfall amount for each day as a fraction or mixed number.

23. Friday $\frac{2}{25}$

24. Saturday _____

25. Sunday $\frac{7}{200}$



| Day | Rainfall (in.) |
|----------|----------------|
| Friday | 0.08 |
| Saturday | 2.4 |
| Sunday | 0.035 |

26. The table shows three popular flavors according to the results of a survey. What is the decimal value of those who like vanilla, chocolate, or strawberry? Round to the nearest hundredth.

| Flavor | Fraction |
|------------|----------------|
| Vanilla | $\frac{3}{10}$ |
| Chocolate | $\frac{1}{11}$ |
| Strawberry | $\frac{1}{18}$ |

27. The table shows the number of free throws each player made during the last basketball season.

Write the fraction of free throws made in simplest form for each player.

Felisa: $\frac{9}{10}$ Morgan: $\frac{13}{24}$ Yasmine: $\frac{15}{22}$ Gall: $\frac{5}{7}$

| Player | Free Throws Made | Free Throws Attempted |
|---------|------------------|-----------------------|
| Felisa | 18 | 20 |
| Morgan | 13 | 24 |
| Yasmine | 15 | 22 |
| Gall | 10 | 14 |

28. Write each fraction from problem #27 as a decimal. Round to the nearest thousandth if necessary.