Lesson 60 • Fractional Part of a Number, Part 1 • Percent of a Number, Part 1

Power Up

– ***Facts***

– ***Mental Math***

– ***Problem Solving***

New Concepts

– ***Examples***

– ***Practice Set***

Written Practice

Facts Write the number for each conversion or factor.

1. 2 m = 200 cm
2. 1.5 km = 1500 m
3. 2.54 cm = 25.4 mm
4. 125 cm = 1.25 m
5. 10 km = 10,000 m
6. 5000 m = 5 km
7. 50 cm = 0.5 m
8. 50 cm = 500 mm
9. 2 L = 2000 mL
10. 250 mL = 0.25 L
11. 4 kg = 4000 g
12. 2.5 g = 2500 mg
13. 500 mg = 0.5 g
14. 0.5 kg = 500 g

15–16. Two liters of water have a volume of 2000 cm^3 and a mass of 2 kg.

	Prefix	Factor
17.	kilo-	1000
18.	hecto-	100
19.	deka-	10
	(unit)	1
20.	deci-	0.1
21.	centi-	0.01
22.	milli-	0.001

Written Practice

1. 1.2181
2. 100 magazines
3. a. $d = 0.20m$

   b. Possible examples

Magazines	Dollars
10	2.00
20	4.00
30	6.00
40	8.00

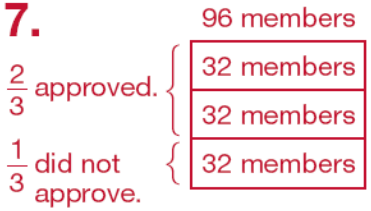
4. a. 20%

   b. $\frac{4}{1}$
5. 84 minutes
6. a. 8×10^{-8}

   b. 6.75×10^{10}
7. a. 64 members

   b. $33\frac{1}{3}\%$

7.



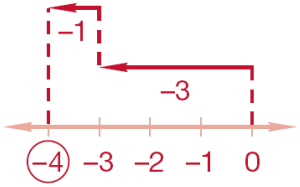
8. 32,000 feet; See student work.
9. $W_N = \frac{3}{4} \times 17$; $12\frac{3}{4}$
10. $0.4 \times \$65 = P$; \$26
11. a. >

    b. =
12.

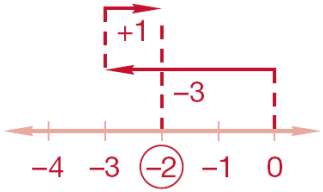
Fraction	Decimal	Percent
$\frac{1}{8}$	a. 0.125	b. $12\frac{1}{2}\%$
c. $1\frac{1}{4}$	d. 1.25	125%

Written Practice *continued*

13. a.



b.



14. $60 = 2^2 \cdot 3 \cdot 5$

15. a. 180°

b. 120°

c. 60°

16. a. $\triangle CDB$

b. $\triangle CEA$

17. a. 24 ft²

b. 96 ft²

18. 48 ft²

19. $\frac{1}{12}$

20. 0.013

21. 33

22. a. =

b. distributive property

23. a. {AA, AB, AC, BA, BB, BC, CA, CB, CC}

b. $\frac{5}{9}$

Written Practice *continued*

24. $\frac{4}{15}$

25. $\frac{1}{8}$ or 0.125

26. 5.915

27. 0.003

28. 3.5 centimeters $\cdot \frac{1 \text{ meter}}{100 \text{ centimeters}}$ = 0.035 meter

29. The first division problem can be multiplied by $\frac{100}{100}$ to form the second division problem. Since $\frac{100}{100}$ equals 1, the quotients are the same. One possibility: $\frac{\$1.50}{\$0.25} = \frac{150¢}{25¢}$

30. a. (0, 2)

b. No