

Lesson 62 • Classifying Triangles

Power Up

- *Facts*
- *Mental Math*
- *Problem Solving*

New Concepts

- *Examples*
- *Practice Set*

Written Practice

Exit

Lesson
62

Page

Facts

Write the number for each conversion or factor.

1. 2 m = 200 cm

9. 2 L = 2000 mL

2. 1.5 km = 1500 m

10. 250 mL = 0.25 L

3. 2.54 cm = 25.4 mm

11. 4 kg = 4000 g

4. 125 cm = 1.25 m

12. 2.5 g = 2500 mg

5. 10 km = 10,000 m

13. 500 mg = 0.5 g

6. 5000 m = 5 km

14. 0.5 kg = 500 g

7. 50 cm = 0.5 m

15–16. Two liters of water have a volume of 2000 cm³ and a mass of 2 kg.

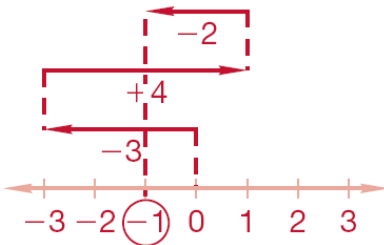
8. 50 cm = 500 mm

	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

**mental
math**

- a. **Calculation:** 5×8.6
- b. **Decimals/Exponents:** 2.5×10^{-2}
- c. **Algebra:** $10x + 2 = 32$
- d. **Measurement:** Convert 2500 g to kg.
- e. **Exponents:** $10^3 \div 10^3$
- f. **Fractional Parts:** $\frac{2}{3}$ of \$24.00
- g. **Geometry:** What is the name for a regular quadrilateral?
- h. **Calculation:** 8^2 , -4 , $\div 2$, $\times 3$, $+ 10$, $\sqrt{\quad}$, $\times 2$, $+ 5$, $\sqrt{\quad}$, $- 4$, square that number, $- 1$

Written Practice

1. 2:55 p.m.
2. 220 miles
3. 27.5 miles per gallon
4. 2
5. 128 books about plants
6. a. 70%
b. $\frac{3}{10}$
7. $W_N = \frac{5}{6} \times 3\frac{1}{3}; 2\frac{7}{9}$
8. \$21,700; Sample: Find 8.5% of \$20,000: $0.085 \times \$20,000 = \1700 . Then add the amount of sales tax to the price of the car to find the total price including sales tax: $\$20,000 + \$1700 = \$21,700$
9. 186,000; one hundred eighty-six thousand
10. <
11. 

Written Practice

continued

12.	Fraction	Decimal	Percent
	$\frac{5}{8}$	a. 0.625	b. $62\frac{1}{2}\%$
	c. $2\frac{3}{4}$	d. 2.75	275%

13. 13

14. a. 8
 b. 2
 c. 0
 d. -2

15. a. $\triangle ZWY$
 b. $\triangle WYX$
 c. $\triangle ZWX$

16. a. 21 in.

b. 22 in.^2

17. a. isosceles triangle

b. 45°

c. 18 cm^2

d. $\angle C$

18. 0.204

19. \$0.90

20. 50

21. 19

22. 2 yd 1 ft $10\frac{1}{4}$ in.

Written Practice

continued

23. 950

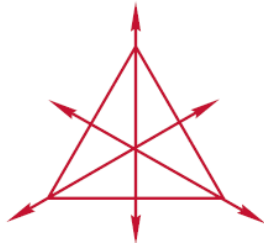
24. $1 \frac{\text{mi}}{\text{min}}$

25. $5 \frac{55}{96}$

26. 1

27. $8 \frac{3}{4}$

28. a.



b. yes, order 3

29. 1

30. 750 g