Lesson 72 • Multiple Unit Multipliers

Power Up

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

New Concepts

- ***Examples***
- ***Practice Set***

Written Practice

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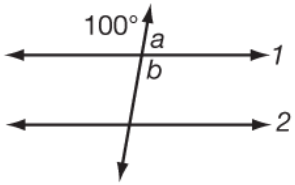
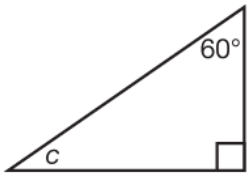
Facts Find the measure of the angle indicated by the letters.

parallel lines 1 and 2

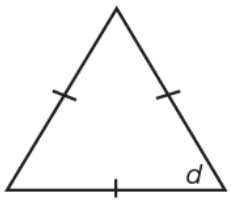


m∠*a* = 80°

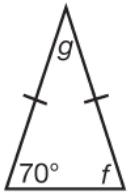
m∠*b* = 100°



m∠*c* = 30°



m∠*d* = 60°



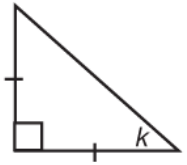
m∠*f* = 70°

m∠*g* = 40°

parallelogram

m∠*h* = 60°

m∠*j* = 120°



m∠*k* = 45°

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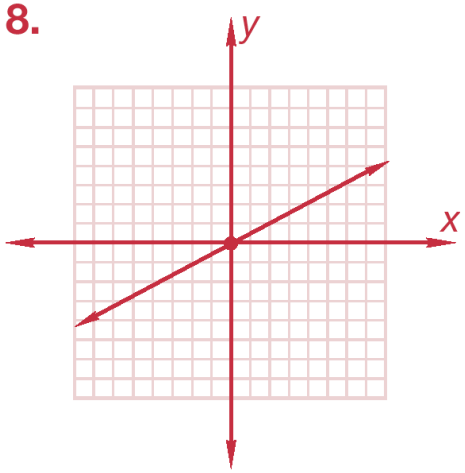
Written Practice

1. 20 fish
2. 150
3. 320 pages
4. No, the ratio of x to y is not constant.
5. a = 14, b = 4; $\frac{1}{2}$
6. $\frac{21 \text{ mi}}{\text{hr}} \cdot \frac{1760 \text{ yd}}{1 \text{ mi}} \cdot \frac{1 \text{ hr}}{60 \text{ min}} = 616 \text{ yd/min}$
7. $\frac{90 \text{ ft}}{\text{min}} \cdot \frac{1 \text{ yd}}{3 \text{ ft}} \cdot \frac{1 \text{ min}}{60 \text{ sec}} = \frac{1}{2} \text{ yd/sec}$
8. Yes, the graph of the equation is linear, the slope is positive, and it intersects the origin.
9. 99.25 in.^{2}

8.



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Written Practice *continued*

10. a. $0.\overline{3}$

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

c. $33\frac{1}{3}$

11. $x = 95°$, $y = 85°$, and $z = 85°$

12. a. {HHH, HHT, HTH, HTT, THH, THT, TTH, TTT}

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

c. increase

13. \$6.88

14. 250,000 miles

15. a. $7(x^2 + 5x - 2)$

b. $-3(x + 5)$

16. $\frac{4a}{3b^3}$

17. $\frac{1}{4}$

18. $y + 1$

19. 2.132

20. $t = -4$

21. $x = 2$

22. $x = 4$

23. $x = 7$

24. $x \geq -2$

25. 265

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