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Intermediate 4, Lesson 65

Formulate Write and solve equations for problems 1 and 2.

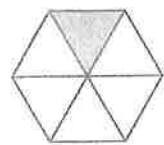
1. ⁽⁵²⁾ The chef uses 3 eggs for each omelette. How many omelettes can he make with two dozen eggs?
- *2. ⁽²⁵⁾ Aaliyah looked at the clock and realized that her next class would begin in 27 minutes and end in 72 minutes. How many minutes long is Aaliyah's next class?
- *3. ⁽⁵⁴⁾ Alvaro is turning three years old today. How many months old is Alvaro?

*4. ^(40, 65) **Estimate** Madeline's favorite orange juice is sold in half-gallon containers. Each month, Madeline estimates that she purchases 7 containers of juice. Estimate the number of gallons of juice Madeline purchases each month. Explain your reasoning.

*5. ⁽⁶⁰⁾ Trudy rode her bike 36 miles in 4 hours. She rode at an average rate of how many miles per hour?

*6. ⁽⁵⁷⁾ **Analyze** The wagon train traveled at an average rate of 20 miles per day. At that rate, how many miles would the wagon train travel in 5 days? Make a table to solve the problem.

- *7. ⁽⁶¹⁾ a. What fraction of this hexagon is *not* shaded?
^(Inv. 2) b. Each side of the hexagon is 1 cm long. What is its perimeter?



*8. ^(Inv. 6) **Interpret** The average amount of precipitation received each year in each of four cities is shown in the table below:

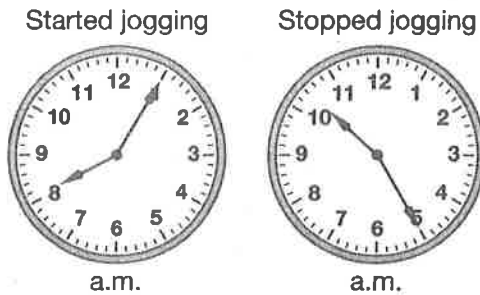
Average Annual Precipitation

City and State	Amount (to the nearest inch)
Phoenix, AZ	8
Reno, NV	7
Boise, ID	12
Albuquerque, NM	9

Display the data in a bar graph. Write one statement that describes the data.

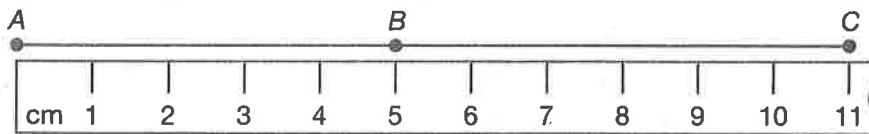
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- *9. J'Raa started jogging early in the morning and did not stop until he returned home. How much time did J'Raa spend jogging?
(27)



10. Nigel drew a circle with a radius of 18 inches. What was the diameter of the circle?
(21)

11. How long is segment BC?
(45)



- *12. **Multiple Choice** Which of these words is the answer to a division problem?
(65)

A product B dividend C divisor D quotient

- *13. Compare: $27 \div 3^2$ \bigcirc $27 \div \sqrt{9}$
(Inv. 3, 62)

14. $\$97.56$
(43, 51) $+ \$ 8.49$

15. $\$60.00$
(52) $- \$54.78$

16. 37.64
(43) 29.45
 3.01
 $+ 75.38$

*17. $168 \div 3$
(65)

*18. $378 \div 7$
(65)

19. 840×3
(58)

20. 4×564
(58)

*21. 304×6
(58)

*22. $4 \overline{)136}$
(65)

*23. $2 \overline{)132}$
(65)

*24. $6 \overline{)192}$
(65)

- *25. **Explain** Describe the steps for solving the equation and then solve the equation to find n .
(61, 65)

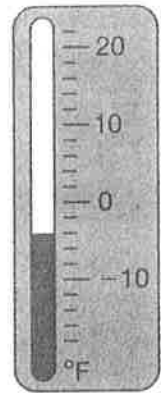
$$7n = 50 + 34$$

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*26. $12 \times 7 \times 10$
(62)

27. Dimitri woke up on a cold morning and glanced out the window at the thermometer. What temperature is shown on this thermometer?



28. a. Three quarters is what fraction of a dollar?
(36, Inv. 5)
b. Three quarters is what percent of a dollar?

- *29. Draw a quadrilateral. A quadrilateral has how many vertices?
(63)

- *30. a. Which side of this quadrilateral is parallel to side CB ?
(23, 45)
b. Which angle appears to be an obtuse angle?

