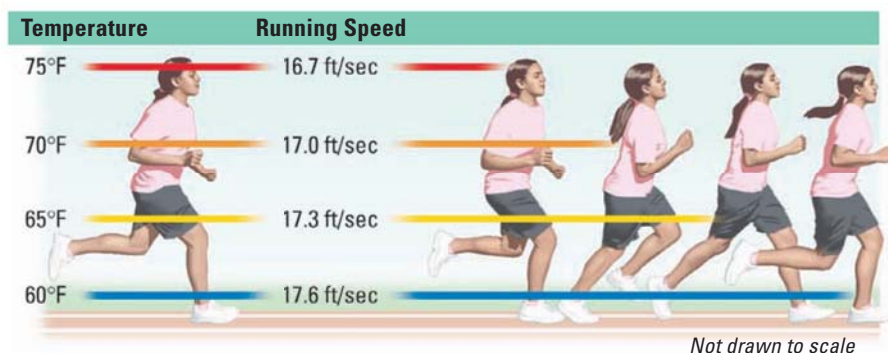


42. **AQUACULTURE** Aquaculture is the farming of fish and other aquatic animals. World aquaculture increased at a relatively constant rate from 1991 to 2002. In 1994 world aquaculture was about 20.8 million metric tons. In 2000 world aquaculture was about 35.5 million metric tons.
- Write an equation that gives world aquaculture (in millions of metric tons) as a function of the number of years since 1991.
 - In 2001 China was responsible for 70.2% of world aquaculture. Approximate China's aquaculture in 2001.
43. **MARATHON** The diagram shows a marathon runner's speed at several outdoor temperatures.



- Write an equation in point-slope form that relates running speed (in feet per second) to temperature (in degrees Fahrenheit).
 - Estimate the runner's speed when the temperature is 80°F.
44. **CHALLENGE** The number of cans recycled per pound of aluminum recycled in the U.S. increased at a relatively constant rate from 1972 to 2002. In 1977 about 23.5 cans per pound of aluminum were recycled. In 2000, about 33.1 cans per pound of aluminum were recycled.
- Write an equation that gives the number of cans recycled per pound of aluminum recycled as a function of the number of years since 1972.
 - In 2002, there were 53.8 billion aluminum cans collected for recycling. Approximately how many pounds of aluminum were collected? *Explain* how you found your answer.



MIXED REVIEW FOR TAKS

TAKS PRACTICE at classzone.com

REVIEW

Lesson 1.3;
TAKS Workbook

45. **TAKS PRACTICE** You want to write an expression that will always produce an odd number. Which of the following will always produce an odd number for any integer, n ? **TAKS Obj. 2**

(A) $3n$ (B) $2n + 1$ (C) $5n - 1$ (D) $5n + 1$

REVIEW

Skills Review
Handbook p. 927;
TAKS Workbook

46. **TAKS PRACTICE** A 60 inch piece of wire was cut into equal segments, and the segments were then soldered together to form a cube. What is the volume of the cube? **TAKS Obj. 8**



(F) 100 in.^3 (G) 125 in.^3
(H) 1000 in.^3 (J) 1728 in.^3