LESSON 1.5 **Practice B**
For use with pages 34–40

Use the formula _d_ = _rt_ for distance traveled to solve for the missing variable.

  1. $d = \underline{\ ?\ }$, $r = 55$ mi/h, $t = 3$ h   **2.** $d = 240$ mi, $r = 60$ mi/h, $t = \underline{\ ?\ }$

  3. $d = 552$ mi, $r = \underline{\ ?\ }$, $t = 8$ h   **4.** $d = 247.5$ mi, $r = 45$ mi/h, $t = \underline{\ ?\ }$

Use the formula _A_ = _bh_ for the area of a parallelogram to solve for the missing variable.

  5. $A = \underline{\ ?\ }$, $b = 6$ ft, $h = 3$ ft   **6.** $A = 34$ ft^2, $b = \underline{\ ?\ }$, $h = 4$ ft

  7. $A = 175$ m^2, $b = 25$ m, $h = \underline{\ ?\ }$ **8.** $A = \underline{\ ?\ }$, $b = 23$ cm, $h = 15$ cm

Look for a pattern in the table. Then write an equation that represents the table.

9.

x	0	1	2	3
y	5	10	15	20

10.

x	0	1	2	3
y	22	25	28	31

11.

x	0	1	2	3
y	17	16	15	14

12.

x	0	1	2	3
y	89	82	75	68

13. **Fastest Solar Powered Vehicle** The highest speed reached by a solar powered vehicle is 48.71 miles per hour. This record was set by a car called Sunraycer on June 24, 1988 in Mesa, Arizona. How far could Sunraycer travel in 2.5 hours at this speed?

14. **Cable Bill** Your local cable company charges $29.99 per month for basic cable service. Premium channels are available for a surcharge of $5.95 per channel. You have $70 per month budgeted for cable. How many premium channels can you purchase?

15. **Sharing the Drive** You and a friend take turns driving on a 450 mile trip. Your friend drives for 3.5 hours at an average speed of 60 miles per hour. What must your average speed be for the remainder of the trip if you want to reach your hotel in 4 more hours?

16. **Parking Lot** A five gallon bucket of tar can seal 3500 square feet of blacktop. If a parking lot is 15,000 square feet, how many buckets of tar must be purchased in order to seal it?