

**1-3****Practice: Skills****Prime Factors**

Tell whether each number is *prime*, *composite*, or *neither*.

1. 0

2. 1

3. 2

4. 3

5. 4

6. 5

7. 6

8. 7

9. 8

10. 9

11. 10

12. 11

Find the prime factorization of each number.

13. 9

14. 25

15. 28

16. 54

17. 34

18. 72

19. 55

20. 63

SCHOOL For Exercises 21-24, use the table below.

Marisa's History Test Scores	
Date	Test Score
January 28	67
February 15	81
March 5	97
March 29	100

21. Which test scores are prime numbers?
22. Which prime number is the least prime number?
23. Find the prime factorization of 100.
24. Find the prime factorization of 81.

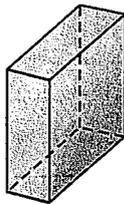
**1-3**

**Practice: Word Problems**

**Prime Factors**

**ANIMALS** For Exercises 1-3, use the table that shows the height and weight of caribou.

CARIBOU	Height at the Shoulder		Weight	
	inches	centimeters	pounds	kilograms
<b>Cows (females)</b>	43	107	220	99
<b>Bulls (males)</b>	50	125	400	180

<p>1. Which animal heights and weights are prime numbers?</p>	<p>2. Write the weight of caribou cows in kilograms as a prime factorization.</p>
<p>3. <b>ANIMALS</b> Caribou calves weigh about 13 pounds at birth. Tell whether this weight is a prime or a composite number.</p>	<p>4. <b>SPEED</b> A wildlife biologist once found a caribou traveling at 37 miles per hour. Tell whether this speed is a prime or composite number. Explain.</p>
<p>5. <b>GEOMETRY</b> To find the area of a floor, you can multiply its length times its width. The measure of the area of a floor is 49. Find the most likely length and width of the room.</p>	<p>6. <b>GEOMETRY</b> To find the volume of a box, you can multiply its height, width, and length. The measure of the volume of a box is 70. Find its possible dimensions.</p> <div style="text-align: center;">  </div>