## Lesson 1.2 Prime Factorization

1.	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48	49	50
	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70
	71	72	73	74	75	76	77	78	79	80
	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100

Circle all the prime numbers in the table.

## Express each number as a product of its prime factors.

<b>2.</b> 28	<b>3.</b> 39
<b>4.</b> 54	<b>5.</b> 68
<b>6.</b> 92	<b>7.</b> 105
<b>8.</b> 165	<b>9.</b> 210

Extra Practice Course 1A 5

Name:	Date:	
<b>10.</b> 245	<b>11.</b> 330	
<b>12.</b> 490	<b>13.</b> 580	
<b>14.</b> 858	<b>15.</b> 1,020	
<b>16.</b> 1,575	<b>17.</b> 1,638	

## Solve.

- **18.** Given that 640 written as a product of its prime factors is 2 × 2 × 2 × 2 × 2 × 2 × 2 × 5, write 1,280 as a product of its prime factors.
- 19. 750 written as a product of its prime factors is 2 × 3 × 5 × 5 × 5.Write 3000 as a product of its prime factors.
- 20. 5,100 written as a product of its prime factors is 2 × 2 × 3 × 5 × 5 × 17. Write 1,700 as a product of its prime factors.
- **21.** It is given that 6,300 can be expressed in terms of its prime factors as  $2 \times 2 \times 3 \times 3 \times 5 \times 5 \times 7$ .
  - a) Write 900 as a product of its prime factors.
  - **b)** Write 700 as a product of its prime factors.