<b>CRCT</b>	<b>GPS P</b>	ractio	;e _ CI	hapte	× •r 1	
LESSON 1-1				-		
Identify a possibl	e pattern. Use the	e pattern to	write the nex	t three num	ibers.	
<b>1.</b> 13, 21, 29, 37	7, , , , , ,		<b>2.</b> 7, 8, 10,	13, , ,	,	
<b>3.</b> 165, 156, 147	7, 138,,,,	•••	<b>4.</b> 19, 33, 4	7, 61, ,	, ,	
Identify a possib	e pattern. Use the	e pattern to o	draw the nex	t three figu	res.	
5.			6.			
<b>7.</b> Make a table figure. Then of the patter	e that shows the n tell how many do rn. Use drawings to	umber of do ts are in the o justify you	ts in each fifth figure r answer.	➡ Figure 1 F	igure 2	Figure 3
LESSON 1-2						
Find each value.			_		_	
<b>8.</b> 5 <sup>3</sup>	<b>9.</b> 7 <sup>3</sup>		<b>10.</b> 5 <sup>5</sup>	<b>1</b> 1	<b>I.</b> 6 <sup>5</sup>	
<b>12.</b> 4 <sup>1</sup>	<b>13.</b> 8 <sup>2</sup>		<b>14.</b> 12 <sup>2</sup>	15	<b>5.</b> 100 <sup>3</sup>	
Write each numb	er using an expor	nent and the	given base.			_
<b>16.</b> 121, base 11		<b>17.</b> 4,096, ba	ise 4	18.	216, base	6
<b>19.</b> 1,296, base 6	6 2	<b>20.</b> 256, base	e 2	21.	8,000, bas	e 20
<b>22.</b> Maria decid the month a much will sh	ed to donate \$1.00 and to double the sixtl ne donate the sixtl	) to her favo amount she h week?	rite charity t donates eac	he first week h week. How	c of	
LESSON (1-3)						
Choose the most	appropriate metr	cic unit for e	ach measure	ement. Justif	<b>iy your an</b> :	swer.
<b>23.</b> The distance first base	e from home plate	to	<b>24.</b> The he	ight of a tele	phone pol	le
<b>25.</b> The mass of	a marble	<b>26.</b> The capacity of a baby bottle				
Convert each me	asure.					
<b>27.</b> 8.9 m to mil	limeters	<b>28.</b> 56 mg to	grams	29.	900 mL to	liters
<b>30.</b> 2 L to millili	ters	<b>31.</b> 150 m to	kilometers	32.	0.002 kg to	o milligrams
<b>33.</b> Anthony and left and Meli Use estimat	l Melinda are drink nda has 0.09L. Wh ion to explain why	king apple ju o has the gre v your answe	ice. Anthony ater amount r makes sens	has 300 mL of juice? se.		

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LESSON 1-4					
Multiply.					
<b>34.</b> $24 \cdot 10^3$	<b>35.</b> 20 • 10 <sup>5</sup>	<b>36.</b> 318 • 10 <sup>3</sup>			
<b>37.</b> 2,180 • 10 <sup>4</sup>	<b>38.</b> 2,508 • 10 <sup>5</sup>	<b>39.</b> 5.555 • 10 <sup>6</sup>			
Write each number in scientific	notation.				
<b>40.</b> 387,000	<b>41.</b> 2,056,000	<b>42.</b> 65,400,000			
<b>43.</b> 1,560	<b>44.</b> 7,000,000,000	<b>45.</b> $206.7 \cdot 10^3$			
<b>46.</b> The distance from the Earth to the moon is about $2.48 \times 10^5$ miles. Write this distance in standard form.					
<b>47.</b> New York City is about $1.0871 \times 10^4$ km from Tokyo, Japan. London, England, is about $9.581 \times 10^3$ km from Tokyo. Which city is closer to Tokyo?					
LESSON (1-5)					
Simplify each expression.					
<b>48.</b> 9 ÷ 3 + 6 • 5	<b>49.</b> 16 + (20 ÷ 5) - $3^2$	<b>50.</b> $(6-3)^3 \div 9 + 7$			
<b>51.</b> $(4 \cdot 9) - (9 - 3)^2$	<b>52.</b> $5 + 9 \cdot 2^2 \div 6$	<b>53.</b> 6,842 - $(5^3 \cdot 5 \cdot 10)$			
<b>54.</b> Charlotte bought 4 shirts and 3 pairs of pants. She got the pants at a discount. Simplify the expression $4 \cdot 32 + 3 \cdot 25 - (3 \cdot 25) \div 5$ to find out how much she paid for the clothes.					
LESSON (1-6)					
Tell which property is represented.					
<b>55.</b> $9 \cdot 2 = 2 \cdot 9$	<b>56.</b> 9 + 0 = 9	<b>57.</b> 12 • 1 = 1 • 12			
<b>58.</b> $1 \cdot (2 \cdot 3) = (1 \cdot 2) \cdot 3$	<b>59.</b> $xy = yx$	<b>60.</b> $(x + y) + z = x + (y + z)$			
Simplify each expression. Justify each step.					
<b>61.</b> 5 + 6 + 19	<b>62.</b> 5 • 10 • 2	<b>63.</b> 3 • (5 • 9)			
<b>64.</b> (25 • 8) • 4	<b>65.</b> 30 + (121 + 39)	<b>66.</b> 125 • (2 • 3)			
Use the Distributive Property to find each product.					
<b>67.</b> 8 • (2 + 10)	<b>68.</b> 3 • (19 + 4)	<b>69.</b> (10 − 2) • 7			
<b>70.</b> 15 ⋅ (13 − 8)	<b>71.</b> (47 + 88) • 4	<b>72.</b> 5 • (157 – 45)			
LESSON 1-7					

Evaluate each expression for the given value of the variable.

<b>73.</b> $8k - 7$ for $k = 4$	<b>74.</b> $9n + 12$ for $n = 6$	<b>75.</b> $12t - 15$ for $t = 4$
<b>76.</b> $v \div 5 + v$ for $v = 20$	<b>77.</b> $3r - 20 \div r$ for $r = 5$	<b>78.</b> $5x^2 + 3x$ for $x = 3$

CRCT GPS Practice

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LESSON 1-8							
Write each phrase	e as an algebraid	c expression.					
<b>79.</b> 12 less than	a number	80.	the quotient	of a number and 8			
<b>81.</b> add 7 to 8 tir	<b>1.</b> add 7 to 8 times a number <b>82.</b> 6 times the sum of 13 and a		um of 13 and a number				
<b>83.</b> A music stor for \$24. Write	e sells packages e an algebraic ex	of guitar strings. D xpression for the co	David bought <i>s</i> ost of one strin	strings g.			
LESSON (1-9)							
Simplify. Justify your steps using the Commutative, Associative, and Distributive Properties when necessary.							
<b>84.</b> 5 <i>b</i> + 3 <i>t</i> + <i>b</i>		<b>85.</b> <i>t</i> + 3 <i>b</i> + 3 <i>t</i> +	3b + x	<b>86.</b> 8g + 3g + 12			
<b>87.</b> 3 <i>u</i> + 6 + 5 <i>k</i>	+ <i>u</i>	<b>88.</b> $11 + 5t^2 + t - 5t^2 + $	+ 6 <i>t</i>	<b>89.</b> $y^3 + 3y + 6y^3$			
<b>90.</b> Write an expression for the perimeter of the given figure. Then simplify the expression. $n + 2$							
LESSON 1-10			n	n			
Determine wheth	er each number	r is a solution of 17	7 = 45 - j.	n			
<b>91.</b> 31	<b>92.</b> 28	93.	14	<b>94.</b> 22			
Determine whether each number is a solution of $x + 23 = 51$ .							
<b>95.</b> 42	<b>96.</b> 31	97.	19	<b>98.</b> 28			
<b>99.</b> Dano has 87 CDs. This is 12 more than Megan has. The equation $87 = c + 12$ can be used to represent the number of CDs that Megan has. Does Megan have 99, 85, or 75 CDs?							
LESSON (1-11)	-						
Solve each equation. Check your answer.							
<b>100.</b> <i>n</i> – 22 = 16		<b>101.</b> $y + 27 = 42$		<b>102.</b> $x - 81 = 14$			
<b>103.</b> <i>t</i> - 32 = 64		<b>104.</b> <i>z</i> + 39 = 72		<b>105.</b> <i>a</i> + 43 = 61			
<b>106.</b> Raquel is hiking a 9 mile trail in the Grand Canyon. She has already hiked 4 miles. How much farther does she have to hike?							
LESSON 1-12							
Solve each equation. Check your answer.							
407 00 / 0		100 10 04		n			

- **107.**  $20 = s \div 3$ **108.** 12y = 84**109.**  $15 = \frac{n}{9}$ **110.**  $\frac{m}{36} = 12$ **111.** 144 = 3p**112.** 72j = 360
- **113.** Adam is saving to buy a computer that costs \$400 before school starts. If school starts in 8 weeks, how much will he need to save per week in order to have enough money?