Cumulative Test

<u> 134</u>

Date

2. (61) Simplify $\sqrt{27}$ using perfect squares.

Find the product for problems 3-4.

3.
$$(60)^2(y+7)(y-7)$$

4.
$$(58) -2xy(-4y^2 + 3x + 5z)$$

(18) Simplify the expression

$$7m^2n^2 - 5m^2n + 3m^2n - 4m^2n^2$$

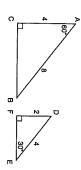
6. (49) The equation y = 3x - 3 is in slopeintercept form. Graph y = 3x - 3 on a coordinate grid.

7. (46) A block of ice in the shape of a cube is the side length of the block of ice? has a volume of 729 cubic inches. What

(45) Translate the sentence below into an

12,306 is less than or equal to the product of 3000 and a number.

9. (36) The figures below are similar. Find mZD.



10. (45) Write an equation in slope-intercept form for the line that passes through (2, -2) and is parallel to y = 3x - 2.



11. (62) Linda planted dahlias in her flower

10, 48, 36, 38, 15, 12, 22, 24, 28, 42, 18 45, 37, 36, 24, 22, 15, 26, 33, 32, 42, 30, 33, 24, 29, 15, 20, 29, 30, 31

12. (59) Solve the systems of equations by substitution.

16. (sī) Jim visits the barber every 9 days. Raiph visits the barber every 24 days.

barber on the same day again?

three visit the barber on the same day, in Pete visits the barber every 12 days. If all how many days will they all visit the

$$3x + y = 6$$

$$2x + 3y = -10$$

13. (63) Solve the system of equations by elimination.

17. (64) If y varies inversely as x and y = 8

when x = 7, find x when y = 4.

$$-3x + 6y = 15$$

$$3x + 2y = 17$$

14. (52) Write in point-slope form the equation of a line that has a slope of -6 and passes through point (1, 2).

15. (43) Determine the values for which the

18. (48) The following data show scores for a of central tendency? is the effect of any outliers on measures bowling team. Identify any outliers. What

172, 67, 185, 192, 201, 167, 183, 170, 171

19. (38) Factor $2c^2d^3 + 2c^4d$ completely.

rational expression $\frac{7x-1}{x-2}$ is undefined.

20. (56) Write an equation for a direct variation that includes the point (4, 16).

Saxon Algebra 1

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83

Saxon Algebra 1

$\frac{7m^{2}n^{3} - 5m^{2}n + 3m^{2}n - 4m^{2}n}{2m^{2}n^{2} - 2m^{2}n}$ $\frac{3m^{2}n^{3} - 2m^{2}n}{2m^{2}n}$ Terms	-3xy(-4y2+3x+5-2) use Distributive -3xy(-4y2)+-2xy(3x)+-3xy(5-2) -3xy(-4y2)+-2xy(3x)+-10xy2 OR -8xy36x2y-10xy2.	2 (4+1)(4-1) nse FOIT	V27 = V9.3 = V9.13 = 3 \square	1. 220 x 0.20 = \$44 discount 220 - 44 = \$176 newprice
10. $y = 3x-2$ (parallel lines have the $(3,3)$ $m = 3$ Same slope) $(3,3)$ $y - y = m(x-x_1)$ (3,3) $y - y = 3(x-2)(3,3)$ $y - y = 3x-6(3,3)$ $y - 3x - 4(3,3)$ $y - 3x - 4$	4. m LD = 60°. (Corresponding angles of similar triangles are congruent)	8. 12,306 < 3000n	1 V= L. w. h. Cube - all sides are equal	6. 1 2 1 1 2 1 4 2 32-3
15. Tx-1 Denominator cannot 2-2 to 42 to 2 to 3 to 4 to	14. $(y-y_1) = m(x-x_1)$ y-a = -6(x-1)	3(+2(4)=17) $3x + 8 = 17$ $-8 - 8$ $3x = 9$ $x = 3$ $x = 3$ $x = 3$ $(3, 4)$	12. $34+4=6 \rightarrow 4=-3x+6$ $3x+34=-10$ $2x+3(-3x+6)=-70$ $4=-12+6$ $3x+-9x+18=-70$ $-7x=-28$ $-7x=-28$ $-7x=-28$ $-7x=-28$ $-7x=-28$ $-7x=-28$	1. Heights of Dahlias lossess lossess 0 a 5558 3 6818320301 0 a 254446899 4 8252 6 0 1 2 3 3 6 6 78 4 2258 4 2358 Hey 3 2 = 32in
16 = KX 16 = KX 18 = KX	A codd + codd d + codd + codd d - + codd + codd	18.67, 167/170, 171, 173, 183, 183, 183, 183, 201 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:	$\chi = 14.$ $\chi = 14.$ $\chi = 14.$	# Find LCM 3 9 34 12 They will get 4 3 8 4 awarent on The same day LCM = 3.4.3.2.1 in 72 days.

12: 34+4=6 -> 4=-3++6	Heights of Dahlias 1 025558 2 0224446899 416 3 6012336478 4 2258 4 2258 Key 3/2=32in
$\chi_1, \psi_1 = \chi_2 \psi_3$	052855