Name: _____ Date: _____ Row: _____ Period: _____

NOTES SECTION 7.2: PROPERTIES OF PROPORTIONS

MEANS-EXTREMES PROPERTY

PROPERTIES OF PROPORTIONS

1-6: Complete.

1) If $\frac{x}{5} = \frac{3}{2}$, then $2x =$ _____

2) If $\frac{x}{7} = \frac{y}{8}$, then $\frac{x+7}{7} =$ _____

3) If $\frac{8}{y} = \frac{3}{x}$, then $\frac{y}{8} =$ _____

4) If $\frac{7}{x} = \frac{3}{4}$, then $3x =$ _____

5) If $4 : x = y : 8$, then $8 : x =$ _____

6) If $4 : x = y : 8$, then $xy =$ _____

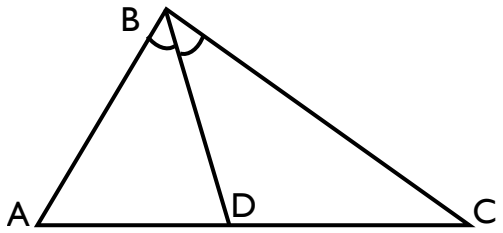
7) Which proportions are equivalent to $\frac{a}{7}=\frac{4}{21}$?

A) $\frac{a}{4}=\frac{7}{21}$	B) $\frac{a+7}{7}=\frac{25}{21}$	C) $\frac{7}{a}=\frac{21}{4}$	D) $\frac{21}{a}=\frac{7}{4}$

8-17: Find the value of *x*.

8) $\frac{6}{x}=\frac{3}{5}$	9) $\frac{x}{5}=\frac{2}{15}$	10) $\frac{14}{x}=\frac{10}{5}$	11) $\frac{3x}{4}=\frac{5}{8}$
12) $\frac{18}{20}=\frac{9}{2x}$	13) $\frac{x+2}{12}=\frac{1}{2}$	14) $\frac{3}{4}=\frac{6}{x-5}$	15) $\frac{x-5}{2}=\frac{5}{6}$
16) $\frac{x-2}{x+1}=\frac{1}{4}$	17) $\frac{x+3}{x-5}=\frac{5}{2}$		

18-20: In the figure, $\frac{AD}{DC}=\frac{AB}{BC}$. Complete the table.



	AD	*DC*	*AC*	*AB*	*BC*
18)	4	6		8	
19)	8			16	18
20)			13	15	24