7 - 4 & 7 - 5 Proportional Lengths HW

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Block\_\_\_\_\_

The diagram shows a segment parallel to one side of a triangle. For Exercises 1-4, tell whether the proportion is correct. *(Write True or False.)*

\_\_\_\_\_\_\_1. $ \frac{e}{f}$ = $\frac{a}{g}$ \_\_\_\_\_\_\_\_\_\_\_\_2. $\frac{e}{f}$ = $\frac{c}{d}$

\_\_\_\_\_\_\_\_3. $\frac{b}{a}$ = $\frac{d}{c}$ \_\_\_\_\_\_\_\_4. $\frac{b}{g}$ = $\frac{c}{h}$

For Exercises 5-8, tell whether the proportion is correct. *(Write True or False.)*

\_\_\_\_\_\_\_\_5. $\frac{a}{b}$ = $\frac{e}{d}$ \_\_\_\_\_\_\_\_ 6. $\frac{e}{f}$ = $\frac{b}{c}$

\_\_\_\_\_\_\_\_7. $\frac{e}{d}$ = $\frac{b}{a}$ \_\_\_\_\_\_\_\_8. $\frac{a}{e}$ = $\frac{d}{b}$

For Exercises 9-18, find the value of x.

9. 10.

x = \_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_



11. 12.

x = \_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_



13. 14.

DE = \_\_\_\_\_\_\_

DB = \_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_

15. 16. 

x = \_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_

17.  18.

x = \_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_

For Exercises 19-24, find x and the indicated measures.

19.  20. 

x = \_\_\_\_\_\_\_

 TV = \_\_\_\_\_\_\_ LI = \_\_\_\_\_\_\_

21. 22.

x = \_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_



23. 24. 

x = \_\_\_\_\_\_\_ x = \_\_\_\_\_\_\_