

8-1 Skills Practice

Geometric Mean

Find the geometric mean between each pair of numbers.

1. 2 and 8

4

2. 9 and 36

18

3. 4 and 7

$\sqrt{28}$ or $2\sqrt{7} \approx 5.3$

4. 5 and 10

$\sqrt{50}$ or $5\sqrt{2} \approx 7.1$

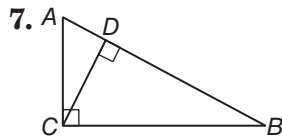
5. 28 and 14

$\sqrt{392}$ or $14\sqrt{2} \approx 19.8$

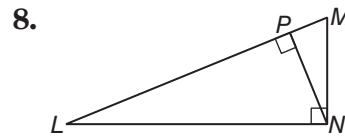
6. 7 and 36

$\sqrt{252}$ or $6\sqrt{7} \approx 15.9$

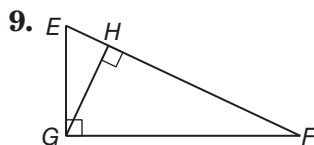
Write a similarity statement identifying the three similar triangles in the figure.



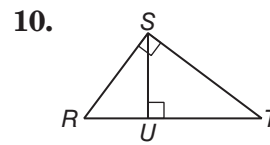
$\triangle ACB \sim \triangle CDB \sim \triangle ADC$



$\triangle MNL \sim \triangle NPL \sim \triangle MPN$

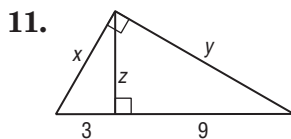


$\triangle EGF \sim \triangle GHF \sim \triangle EHG$

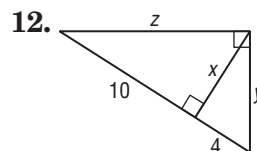


$\triangle RST \sim \triangle SUT \sim \triangle RUS$

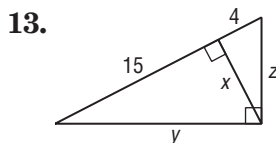
Find x , y and z .



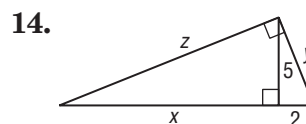
6; $\sqrt{108}$ or $6\sqrt{3} \approx 10.4$;
 $\sqrt{27}$ or $3\sqrt{3} \approx 5.2$



$\sqrt{40}$ or $2\sqrt{10} \approx 6.3$; $\sqrt{56}$ or $2\sqrt{14} \approx 7.5$;
 $\sqrt{140}$ or $2\sqrt{35} \approx 11.8$



$\sqrt{60}$ or $2\sqrt{15} \approx 7.7$;
 $\sqrt{285}$ or $2\sqrt{19} \approx 16.9$;
 $\sqrt{76} \approx 8.7$



12.5; $\sqrt{29} \approx 5.4$; $\sqrt{181.25} \approx 13.5$