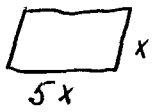
Quiz Practice 8.1-8.3

Answers

1. 16
2. 75°
3. 14
4. 4/5
5. 2
6. 4+m
7. 3.2
8. 4
9. 5.25
10. 16
11. 1/2
12. 2:1
13. $d = 3.5$
    $t = 7$
    $u = 5$
14. ABCD → 15
    WXYZ → 30
15. 1:2

16. 

$5x \cdot x = 125$
$5x^2 = 125$
$x^2 = 25$
$x = 5$

Length = 25
width = 5

17. $x^2 = 72$
$x = 6\sqrt{2}$

$\frac{6}{x} = \frac{x}{12}$

18. $\frac{9}{15} = \frac{15}{x}$
$9x = 225$
$x = 25$

19. $\frac{\text{actual}}{\text{Toy Boat}} = \frac{25}{1} = \frac{40}{x}$
$25x = 40$
$x = 1.6$ or $1\frac{3}{5}$ or $\frac{8}{5}$

20. $\frac{\triangle ABC}{\triangle DEF} = \frac{3}{4} = \frac{42}{x}$
$3x = 168$
$x = 56$ cm

21 $\frac{10}{y} = \frac{8}{10}$
$8y = 100$
$y = \frac{100}{8} = \frac{25}{2} = 12.5$

$x + x + 42 = 180$
$2x = 138$
$x = 69$

22. yes. Angles $\cong$
$\frac{5}{8} = \frac{8}{12.8}$
$64 = 64$ ✓

24. $\frac{NI}{HO} = \frac{IC}{OP} = \frac{CE}{PE} = \frac{EN}{EH}$