

Answers

1. 16

2. 75

3. 14

4.  $\frac{4}{5}$

5. 2

6.  $4+m$

7. 3.2

8. 4

9. 5, 25

10. 16

11.  $\frac{1}{2}$

12. 2

13.  $d = 3.5$

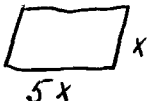
$t = 7$

$u = 5$

14.  $ABCD \rightarrow 15$

$WXYZ \rightarrow 30$

15.  $1.2$

16.   $5x \cdot x = 125$   
 $5x^2 = 125$   
 $x^2 = 25$   
 $x = 5$

Length = 25  
 Width = 5

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

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

19.  $\frac{\text{actual}}{\text{Bort}} = \frac{25}{1} = \frac{40}{x}$

20.  $\frac{\Delta ABC}{\Delta DEF} = \frac{3}{4} = \frac{42}{x}$

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  $\cong$

$\frac{5}{8} = \frac{8}{12.8}$

$64 = 64 \checkmark$

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