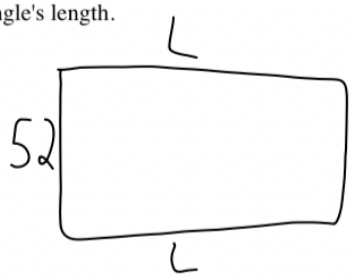
WP-5 Notes

Tuesday, 27 October 2026 08:28

Notes: Word Problems

1) The perimeter of a rectangle is 248 cm and the width is 52 cm. Find the rectangle's length.



$2L + 2w = P$

$2L + 2(52) = 248$

$104 = 248$

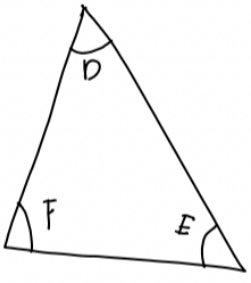
$-104 \quad -104$

144

$\frac{2L}{2} = \frac{144}{2}$

$L = 72$

2) In any triangle, the sum of the measures of the angles is 180 degrees. In triangle DEF, angle D is twice as large as angle E and also 30 degrees larger than angle F. Find the measure of each angle.



$D + F + E = 180$

$D = 2E$

$D = 30 + F$

$F = D - 30$

$E = \frac{D}{2}$

$\frac{D}{2} + (D - 30) + D = 180$

$\frac{D}{2} + 2D - 30 = 180$

$+30 \quad +30$

$2 \cdot \frac{D}{2} + 2D = 210 \cdot 2$

$D + 4D = 420$

$\frac{5D}{5} = \frac{420}{5}$

$D = 84$

$E = 42$

$F = 54$