WP-7 Notes

Tuesday, 3 November 2026 07:52

10) David earns three times as much each week as a lifeguard than he does stocking shelves. His total weekly wages are $210 more than that of his younger brother. His brother earns one-third as much as David does as a lifeguard. How much does David make as a lifeguard? X = Stocking shelves

3x = life guarding wage

$\frac{1}{3} \cdot 3x =$

X = younger bro

	Shelves x	lifeguard =	total
D	x	3x	4x
B	—	x	x

$4x = x + 210$

$-x \quad -x$

$3x = 210$

$x = 70$

210 lifeguarding

280 total

14) In September, Maya baked three times as many cupcakes as Leo. In October, Maya baked 12 fewer cupcakes than she did in September, while Leo baked 6 more cupcakes than he did in September. If they baked the same number of cupcakes in October, how many cupcakes did each bake in September?

X = Leo september cupcakes

3x = Maya september

3x - 12 = Maya oct

X + 6 = Leo oct

	Sep	oct	
Leo	x	x+6	
Maya	3x	3x-12	

$3x - 12 = x + 6$

$-x \quad +12 \quad -x \quad +12$

$2x = 18$

$\frac{2x}{2} = \frac{18}{2}$

$x = 9$

9 cupcakes Leo

27 maya cupcakes