

# Mixture Problem

on released Math 1 eoc 2016-17

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$$4a = \$22$$

$\therefore$  almonds \$5.50/lb

cashews cost 60% more:  $1.60(5.50) = 8.80$   
cashews \$8.80/lb

$$5.50a + 8.80c = 6.50(a+c) \text{ where}$$

$a = \# \text{ lb's of almonds}$   
 $c = \# \text{ lb's of cashews}$

$$5.50(4) + 8.80c = 6.50(4+c)$$
$$22 + 8.80c = 26 + 6.50c$$
$$2.30c = 4$$

$$c = 1.74 \leftarrow 1.74 \text{ lb's of cashews}$$

$$\text{total lb's} = 4 + 1.74 = 5.74$$

$$\text{so cashews are } \frac{1.74}{5.74} = .3031 \dots$$

$$\approx 30\% \boxed{C} \checkmark$$