

Purple Belt – February 1, 2006 Homework and Take Home Fun Problems

Homework: Finish exercises 27 – 32 from last week. Do exercises 33-35.

Your challenge is to place the digits 2, 4, 6 and 7 into the boxes so that the difference between the two digit numbers is as big as possible:

	<div></div>	<div></div>
—	<div></div>	<div></div>
	<hr/>	

What if you wanted to make the difference as small as possible

	<div></div>	<div></div>
—	<div></div>	<div></div>
	<hr/>	

Apple Picking

Seventh Heaven Orchards decides to hold a special sale at the end of the season, hoping that people will come and buy the apples that have already fallen from the trees. They decide on an unusual system for pricing the apples. The bags they give out hold just seven apples each. The orchard then charges its customers five cents for every bag of seven apples, and 15 cents for every apple left over. According to this system, which costs the most: 10 apples, 30 apples, or 50 apples.