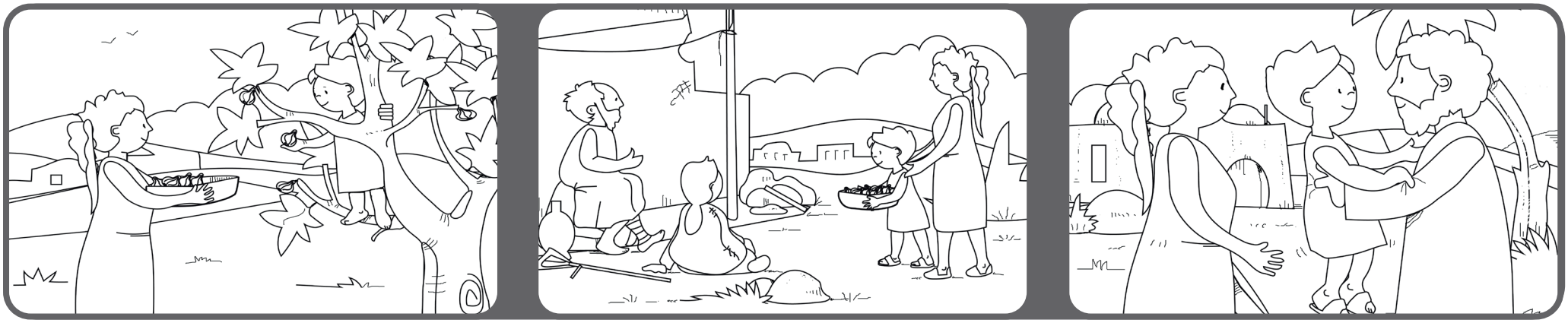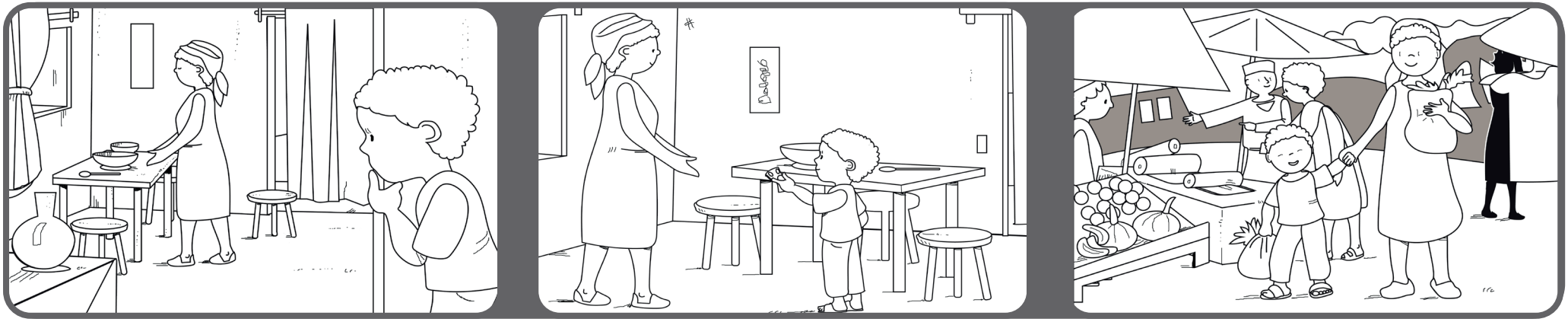gen4