Lock and Key Drawing: Paired Construction Plate

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

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Worked example / complete source key

Draw a padlock with a 60 mm wide by 45 mm tall body and a shackle opening 18 mm wide by 20 mm tall. Draw a matching key with a bow diameter of 20 mm, a shaft length of 70 mm, and a bit height of 12 mm. Check the pairing.

Answer: The bit height (12 mm) is smaller than the shackle opening height (20 mm), so the key fits. The shaft length (70 mm) is 10 mm longer than the lock body width (60 mm), which is the hypothetical pairing allowance. The bow diameter (20 mm) is about one third of the body width, echoing the lock scale. Darken final lines after these checks.