Peace Sign Easy Drawing: Circle and Three Strokes

Original tasks 1, 2, 3 / complete keys

Task 1

A learner draws a circle with a hypothetical diameter of 6 cm. They draw the vertical stroke from the top rim to the center. What length should the vertical stroke be, and how can they check it?

Answer: The vertical stroke should be about 3 cm, which is half of 6 cm. Check by measuring the stroke and comparing it with half the measured diameter.

Reason: The vertical stroke runs from the rim to the center, so it covers half the diameter. Half of 6 cm is 3 cm.

Check: Measure the circle diameter, divide by two, and compare with the measured stroke length.

Task 2

A learner draws a circle with a hypothetical diameter of 12 cm. They draw two diagonal strokes from the center to the lower rim. Each diagonal is measured at 7 cm. Is that reasonable, and why?

Answer: Yes, it is reasonable. The diagonals travel from the center to the rim at an angle, so they are slightly longer than half the diameter, which is 6 cm. A measured length of about 7 cm is consistent with an angled path to the rim.

Reason: Half the diameter is 6 cm. A diagonal from the center to the rim is longer than a straight vertical half because it follows an angled path. Small differences are expected.

Check: Compare each diagonal with half the diameter; expect the diagonal to be a little longer, not shorter, and confirm both diagonals are similar to each other.

Task 3

A learner’s symbol has a vertical stroke that stops 1 cm short of the top rim on a circle with a hypothetical diameter of 8 cm. What is the main problem, and what should they do?

Answer: The vertical stroke does not reach the top rim, so the symbol is incomplete. They should extend the stroke to the top rim and then check that its length is about 4 cm, half of 8 cm.

Reason: The vertical stroke must connect the top rim to the center. Stopping short breaks that connection. Extending it restores the correct proportion.

Check: Measure from the center to the top rim and confirm the stroke reaches that point; then measure the stroke and compare with half the diameter.

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Original tasks 4 / complete keys

Task 4

A learner draws a circle with a hypothetical diameter of 9 cm. The vertical stroke measures 4.5 cm. One diagonal measures 5 cm and the other measures 7 cm. What should they adjust, and what check confirms the fix?

Answer: The vertical stroke is correct at about 4.5 cm, half of 9 cm. The diagonals are unbalanced because one is much longer than the other. They should adjust the longer diagonal’s endpoint along the lower rim so both diagonals look similar in length and angle. Check by measuring both diagonals and comparing them with each other and with half the diameter.

Reason: The vertical stroke matches half the diameter, so it is fine. The diagonals should be balanced; a large difference in length suggests one endpoint is misplaced. Adjusting the endpoint restores balance without redrawing the whole symbol.

Check: Measure both diagonals; they should be close to each other and slightly longer than half the diameter. Confirm both reach the lower rim and meet at the center.

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Source rubric / reflection

- [ ] The symbol is a circle containing exactly three internal strokes: one vertical and two diagonals.
- [ ] The vertical stroke runs from the top rim to the center.
- [ ] The two diagonal strokes run from the center to the lower rim and look balanced.
- [ ] All strokes stay inside the circle and meet at or very near the center.
- [ ] The vertical stroke length is about half the measured circle diameter.
- [ ] The drawing is clean enough to read as a peace symbol; line weight and letter style may vary.

Reflection: What did you check, what did you change, and what will you try next?