Draw a Dream Catcher: Ring, Web, and Feathers

Original tasks 1, 2 / independent work

Task 1

A drawing has a ring diameter of 12 cm and 6 web anchors. What is the angle between neighboring anchors? Show your arithmetic.

Task 2

A dream catcher has 5 feathers with hanging lines of 3 cm, 4 cm, 5 cm, 4 cm, and 3 cm. What is the total length of hanging line used?

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Original tasks 3, 4 / independent work

Task 3

On a 20 cm by 25 cm sheet, a ring of 10 cm diameter is placed with its center 8 cm from the top. How much vertical space remains below the ring for feathers? Use the bottom of the ring as the reference.

Task 4

A drawing uses 12 web anchors. If you add a second layer connecting midpoints between anchors to an inner circle, how many midpoint connections are there?