Developing a method to determine teachers’ and pupils’ activities during a mathematics lesson.

Summary: Third-graders from nineteen classrooms (N = 316) were asked to draw a picture on a mathematics lesson. Based on these drawings we have developed a data analysing method that allows us to find out how pupils present both their teacher’s and their classmates’ activities in their drawings. Two inventories were formed that contain, respectively, teachers’ and pupils’ activities during a mathematics lesson as seen in the pupils’ drawings. The first inventory contains 14 separate items organized into six groups that contain teacher activities like asking questions and giving feedback on mathematics. Ten of the items are related to teaching and the rest contain items like keeping order in addition to the teacher’s location in the classroom. Respectively, pupils’ activities are organized into five groups that contain altogether 22 items. These contain the activities of a single pupil, and also pupil-teacher and pupil-pupil discussions on mathematics.

Classification: C70 C80

Keywords: pupils’ drawings; mathematics lesson; teachers’ and pupils’ activities