Make Equal Groups

1. Mrs Skinner's class have an art lesson. She needs to share out the items below equally between the six table groups. She has 60 items in total.

water cup

paintbrush

paint palette

roll of paper

Each table must have:
- two paintbrushes for every 1 water cup
- at least one of roll of paper
- at least 1 water cup
- no more than 3 paint palettes

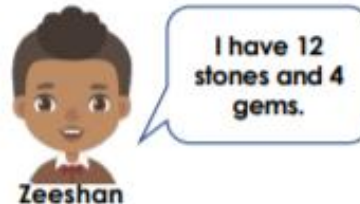Table 1 Table 2 Table 3 Table 4 Table 5 Table 6

Explore the possible combinations of objects that each table could receive.
Various combinations of 10 items per table, for example: 2 x rolls of paper; 4 x paintbrushes; 2 x paint palettes; 2 x water cups

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2. Investigate the different ways that each child can sort their belongings into different numbers of equal groups.

Freya: I have 18 toys.

Zeeshan: I have 12 stones and 4 gems.

Matilda: I have 24 dolls.

Peter: I have 20 chocolates.

Various answers, for example: Freya could sort her toys into 3 equal groups of 6, Matilda could sort hers into 4 equal groups of 6, Peter could sort his chocolates into 2 equal groups of 10 and Zeeshan could have 4 groups each with 3 stones and 1 gem.

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