Miss Hughes' group - Reasoning & problem solving answers

Bronze

1a. $\frac{1}{2} = \frac{2}{4}$ Any 2 squares need to be coloured in for each shape.

2a. one half = $\frac{2}{4} \cdot \frac{3}{6} \cdot \frac{4}{8}$ one third = $\frac{1}{3} \cdot \frac{3}{9} \cdot \frac{4}{12}$

3a. Sian is not correct as one half is equivalent to two quarters.

1b. $\frac{1}{4} = \frac{2}{8}$ Any 2 squares need to be coloured in for each shape.

2b. one quarter = $\frac{2}{8} = \frac{3}{12}$ one sixth = $\frac{1}{6} = \frac{2}{12}$

3b. Morgan is not correct as one quarter is equivalent to two eights.

Silver

4a. $\frac{1}{3} = \frac{3}{9}$ Any 3 squares need to be coloured in for each shape.

5a. one quarter = $\frac{2}{8}$ $\frac{3}{12}$ $\frac{4}{16}$ one fifth = $\frac{2}{10}$ $\frac{5}{25}$ odd one out = $\frac{4}{8}$

6a. Ellie is not correct as one third is equivalent to two sixths.

4b. $\frac{1}{4} = \frac{3}{12}$ Any 3 squares need to be coloured in for each shape.

5b. one third = $\frac{2}{6} \cdot \frac{4}{12} \cdot \frac{5}{15}$ one eighth = $\frac{2}{16} \cdot \frac{3}{24}$ odd one out = $\frac{2}{4}$

6b. Raj is not correct as one fifth is equivalent to two tenths.

Gold

 $7a.\frac{1}{8} = \frac{2}{16}$ Any 2 squares need to be coloured in for each shape.

8a. one fifth = $\frac{4}{20} \frac{6}{30}$ one eighth = $\frac{4}{32} \frac{5}{40}$ odd ones out = $\frac{5}{15} \frac{10}{20}$

9a. Crystal is not correct as two sixth is equivalent to four twelfths.

7b. $\frac{1}{5} = \frac{3}{15}$ Any 3 squares need to be coloured in for each shape.

8b. one tenth = $\frac{3}{30} \frac{5}{50}$ one sixth = $\frac{5}{30} \frac{6}{36}$ odd ones out = $\frac{5}{10} \frac{3}{12}$

9b. Oscar is not correct as two thirds is equivalent to four sixths.