Challenge 1

Sort the cards into multiples of 3, 8, 9 and 12.
You can use the same multiple more than once.

| 6 | 18 | 27 | 24 | 30 | 16 | 56 | 32 | 54 | 36 | 72 | 144 | 108 | 60 |
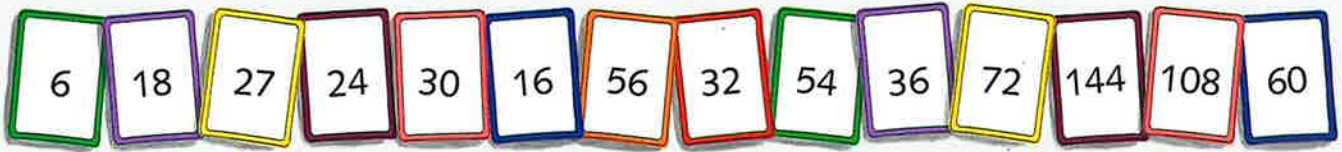
Challenges 2, 3

1 New resources have arrived in school and need to be divided between the numbers of classes shown. What is the approximate number each class will receive?

Example
$462 ÷ 6 \rightarrow 480 ÷ 6 = 80$

paper clips 462	pencils 288	tacks 528	butterfly clips 396	little sharpeners 315
Share between	Share between	Share between	Share between	Share between
6 classes	6 classes	6 classes	4 classes	5 classes
3 classes	8 classes	8 classes	9 classes	7 classes
7 classes	3 classes	4 classes	6 classes	3 classes

2 Choose three resources from above. Share the resources between the classes to find out exactly how many they would receive of each. Use the formal written method.

Example

$$\begin{array}{c c c c}
 & H & T & O \\
 & & 7 & 7 \\
6 & 4 & 6 & {}^4 2 \\
\end{array}$$

Challenge 3

Check two of your answers from each set using the inverse operation. Choose the method of multiplication that you find the easiest or that is the most efficient.