*Division – Without a Calculator*

You need: Activity A: A set of 22 “944 activity cards” per group.

Activity B: A set of 25 “864 activity cards” per group.

*Part A*

Deal out all the cards face down. You may read out the information on any of your cards at any time and as often as you wish.

You may not show any of your cards to anyone else.

Work together, using the cards, find a way to work out the answer to

944 ÷ 16 [The answer is a whole number]

When the answer has been found put all the cards face up on the table and discuss the following questions:

Which cards did you use to solve the problem?

Look at all the cards in turn and discuss how each one could help to solve the problem.

Which groups of cards would be enough to solve the problem?

Use the methods you have discussed to do these divisions:

(a) 896 ÷ 28 (b) 693 ÷ 33 (c) 299 ÷ 13

*Part B*

Repeat the above but using the 25 “864 cards” to solve

864 ÷ 27 [The answer is a whole number] and

Use the methods you have discussed to do these divisions:

(a) 896 ÷ 28 (b) 693 ÷ 33 (c) 299 ÷ 13

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| 32 ÷ 16 = ?  944 | 900 ÷ 15 = ?  944 | What is 16 x 60?  944 |
| How many 16’s will divide into 144  944 | ½ of 1600 = ?  944 | How many times can you take 160 from 944?  944 |
| 640 + 320 = ?  944 | What is 16 x 2?  944 | What is 16 x 40?  944 |
| What is 16 x 30?  944 | 944 ÷ 8 = ?  944 | 320 + 320 = ?  944 |
| 96 ÷ 16 = ?  944 | 90 ÷ 15 = ?  944 | 160 + 160 =?  944 |
| 64 ÷ 16 = ?  944 | 1000 ÷ 20 = ?  944 | How many 16’s in 94?  944 |
| 900 ÷ 10 = ?  944 | What is 16 x 20?  944 | 944 + 16 = ?  944 |
| 944 ÷ 16 = 472 ÷ 8 = ?  944 |  |  |

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| 324 – 270 = 54  864 | 27 x 3 = 81  864 | 540 + 270 = 810  864 |
| 432 + 432 = 864  864 | 27 + 27 = 54  864 | 850 ÷ 25 = 34  864 |
| 896 – 32 = 864  864 | 27 + 27 + 27 = 81  864 | 54 ÷ 27 = 2  864 |
| 54 + 54 = 108  864 | 81 x 10 = 810  864 | 810 + 54 = 864  864 |
| 594 – 270 = 324  864 | 837 + 27 = 864  864 | 216 + 216 = 432  864 |
| 86 ÷ 27 is about 3  864 | 900 ÷ 30 = 30  864 | 810 + 27 = 837  864 |
| 86 ÷ 27 = 3 r 5  864 | 30 x 30 = 900  864 | 864 – 270 = 594  864 |
| 27 x 10 = 270  864 | 270 + 270 + 270 = 810  864 | 108 + 108 = 216  864 |
| 270 + 270 = 540  864 |  |  |