

### BROKEN CALCULATOR PROBLEM 3

Captain's calculator has broken.

Unfortunately, none of the buttons work apart from the 4, 7, +, - and = button.

Can you help the Captain make all the numbers from 1 to 20 using his broken calculator?



Example: he can make 9 using  $4 + 4 + 4 + 4 - 7 = 9$ .

|                     |      |  |      |
|---------------------|------|--|------|
|                     | = 1  |  | = 11 |
|                     | = 2  |  | = 12 |
|                     | = 3  |  | = 13 |
|                     | = 4  |  | = 14 |
|                     | = 5  |  | = 15 |
|                     | = 6  |  | = 16 |
|                     | = 7  |  | = 17 |
|                     | = 8  |  | = 18 |
| $4 + 4 + 4 + 4 - 7$ | = 9  |  | = 19 |
|                     | = 10 |  | = 20 |



Show your working out – it will help to arrive at an accurate answer.

This may be a trial and error task, so have perseverance.

Good Luck