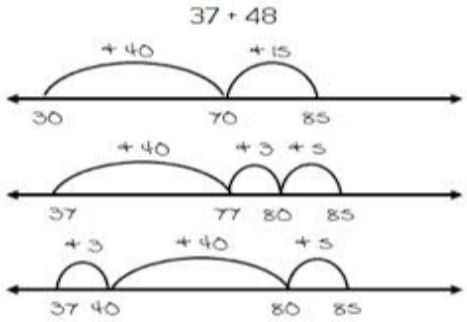
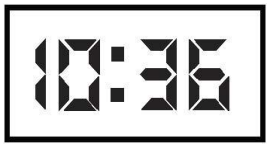
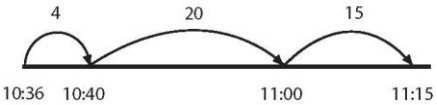
Mental Maths/Number Talks Strategies

Addition

Adding Up in Chunks/Counting On	Reordering	Place Value - Partitioning	Making Tens/Bridging through 10
37 + 48  	25 + 26 + 75 100 + 26 = 126	116 + 127 100 + 100= 200 10 + 20 = 30 6 + 7 = 13 200+30+13=243	49 + 38 1 7 50 + 37= 87
Compensation	**Doubles/Near Doubles**	**Friendly Numbers**	**Bridging through 60**
67 + 28 +2 67 + 30 = 97 97-2 = 95	16 + 17 16 1 16 + 16= 32 32 + 1 = 33	28+47 +2 -2 30 + 45= 75	 How many minutes is it to the next hour? 

Mental Maths/Number Talks Strategies
Subtraction

Removal or Counting Back

123 - 69

123 - (20+40+3+6)

123 – 20 = 103

103 – 40 = 63

63 – 3 = 60

60 – 6 = 54

Reordering

25 - 6 - 5

20 - 6 = 14

Place Value - Partitioning

367 - 154

367 – 100 = 267

267 - 50 = 217

217 - 4 = 213

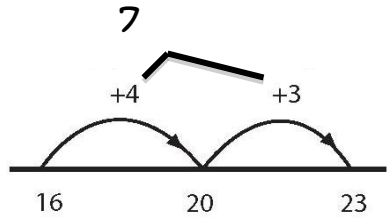
367 – 100 – 50 – 4 = 213

Adding Up/Bridging through 10

23 - 16

16 + 4 = 20

20 + 3 = 23



Place Value & Negative Numbers

399 - 254

(300+90+9) – (200+50+9)

300 + 90 + 9

\- 200 + 50 + 4

100 + 40 + 5

= 145

Adjusting for Easier Numbers

123-59

+1

123 – 60 = 63

63 + 1 = 64

Keep a Constant Difference

151–98

(151 + 2) – (98+2)

153 – 100 = 53

151 – 98 = 53

Mental Maths/Number Talks Strategies

Multiplication & Division

Friendly Numbers

9 × 15

10 × 15 = 150

150 – 15 = 135

Don't forget to 'undo' your change!

Repeated Addition

6 × 15

15+15+15+15+15+15

15 + 15 = 30

30 + 15 = 45

45 + 15 = 60

60 + 15 = 75

75 + 15 = 90

Partial Products

6 × 125

6 × (100 + 20 + 5)

(6×100) + (6×20) + (6×5)

600 + 120 + 30 = 750

Doubling and Halving

24 × 8

x2 ÷2

48 × 4

x2 ÷2

96 × 2

x2 ÷2

192

Breaking Factors into Smaller Factors

12 × 25

2 × 6

2 × 25 = 50

50 × 6 = 300

Grid Method

35×7

×	30	5
7	210	35

210 + 35 = 245

Partial Quotients

36 R 10

15 | 550

- 150 (10 x 15)

400

- 300 (20 x 15)

100

- 30 (2 x 15)

70

- 60 (4 x 15)

10

Multiplying Up

72 ÷ 8

8 × 5 = 40

8 × 4 = 32

(5 + 4) = (40 + 32)

8 × 9 = 72

Repeated Subtraction

24 ÷ 6 24 – 6 – 6 – 6 – 6 **6 × 4 = 24 so 24 ÷ 6 = 4**