Strategies for the four operations

Number · VC2M4N06

Choose mental, written or digital methods to suit the numbers; check the result.

Addition: carry

```
  1  1  1  1
  2  3  8  4  6
+    7  9  7  8
-----------------
  3  1  8  2  4
```

Subtraction: trade

```
  2  9  9  9  12
  3  0  0  0  2
-    7  5  8  9
-----------------
  2  2  4  1  3
```

☆ **Add and regroup**

Line up same places. Regroup 10 ones as 1 ten.

23,846 + 7,978 = 31,824.

268 + 157 = 268 + 100 + 50 + 7 = 425.

☆ **Subtract: trade or compensate**

30,002 − 7,589 = 22,413.

Trade across zeroes: 1 thousand can make 10 hundreds.

503 − 278 = 503 − 300 + 22 = 225.

☆ **Multiply every part**

24 × 6 = (20 × 6) + (4 × 6) = 144.

23 × 14 = (20 × 10) + (20 × 4) + (3 × 10) + (3 × 4)

= 200 + 80 + 30 + 12 = 322.

☆ **Divide and handle brackets**

1,248 ÷ 4 = (1,200 ÷ 4) + (48 ÷ 4)

= 300 + 12 = 312.

Brackets first: (18 + 6) ÷ 3 = 24 ÷ 3 = 8.

Remember...

Calculator: 1,248 ÷ 4 = 312; check 312 × 4 = 1,248.

For long lists, use a digital tool; estimate and check entries.