

Autumn 2 Week 1 Maths Lesson 1: LO: To select an appropriate mental strategy to answer a calculation.

Some calculations look like they need a formal written method BUT actually can be solved mentally or with a simple jotting.

Addition and subtraction:

Strategy 1:

Partitioning:

643 + 270 can be easily calculated mentally by

$$643 + 200 = 843$$

$$843 + 70 = 913$$

Strategy 2:

Adjusting:

8.5 - 3.9 can be easily calculated mentally by

$$8.5 - 4 (3.9 + 0.1) = 4.5 + 0.1$$

$$= 4.6$$

Strategy 3:

Counting up:

$$7,003 - 4,964$$

$$4,964 + \mathbf{6} = 4,970$$

$$4,970 + \mathbf{30} = 5,000$$

$$5,000 + \mathbf{2,003} = 7,003$$

$$\mathbf{6 + 30 + 2,003 = 2,039}$$

$$\text{Therefore } 7,003 - 4,964 = 2,039$$

EFFICIENT METHODS

Do I just know it?
Can I work it out in my head?

Do I need jottings?
Last resort – full written method!

Have a go:

Remember you can use a mental strategy to solve these questions. You can check your answers using a formal written method.

A) $507 + 199$

B) $296 + 103$

C) $502 + 297$

D) $508 - 376$

E) $805 - 184$

F) $4.2 + 2.1$

G) $6.9 - 3.2$

H) $7.5 - 3.4$

I) $? + 2,100 = 6,200$

J) $5,900 - ? = 2,899$