

MENTAL CALCULATIONS



GET READY



$$1) 54 + 29 =$$

$$2) 43 - 21 =$$

$$3) 32 \times 12 =$$

$$4) 42 \div 3 =$$

$$1) 54 + 29 = 83$$

$$2) 43 - 21 = 22$$

$$3) 32 \times 12 = 384$$

$$4) 42 \div 3 = 14$$

LET'S LEARN



In your head...

$$39 + 13$$

How did you do it?

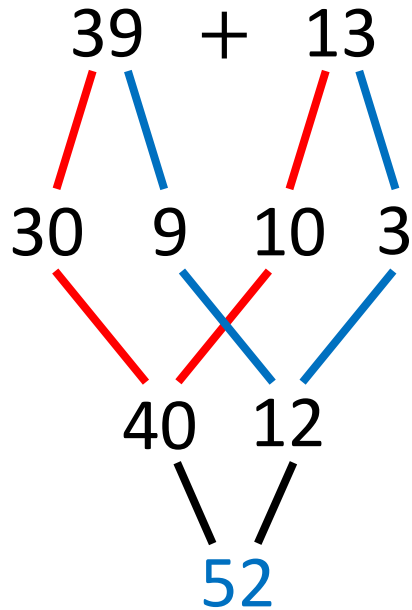
Have a think



$$39 + 13 = 52$$

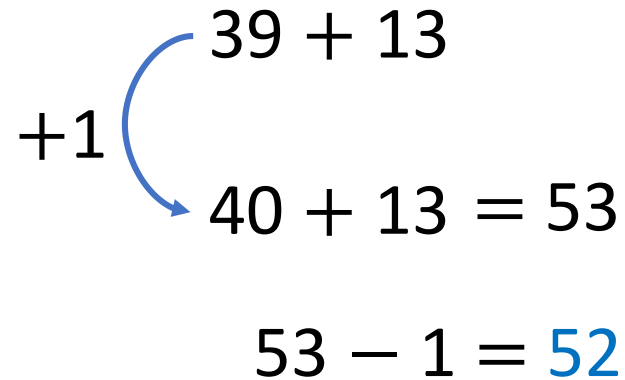
Strategy 1 –

Partitioning and adding



Strategy 2 –

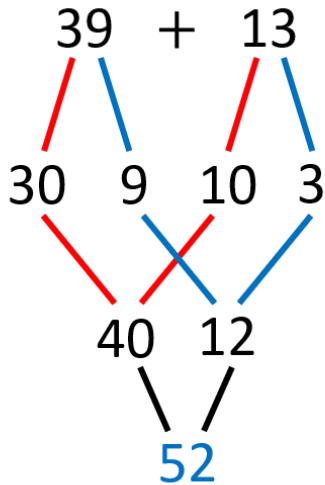
Round then add





Have a think

Strategy 1 –
Partitioning and adding



Strategy 2 –
Round then add

$$\begin{array}{l}
 39 + 13 \\
 +1 \curvearrowright \\
 40 + 13 = 53 \\
 53 - 1 = 52
 \end{array}$$

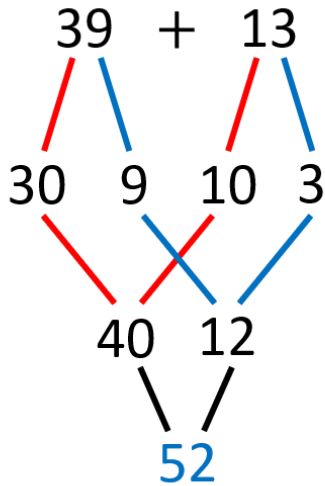
Which strategy *might*
you use for these
calculations?

$$38 + 21$$

$$53 + 37$$

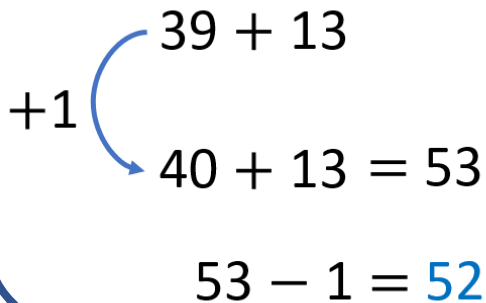
Strategy 1 –

Partitioning and adding



Strategy 2 –

Round then add



Which strategy *might* you use for these calculations?

38 + 21

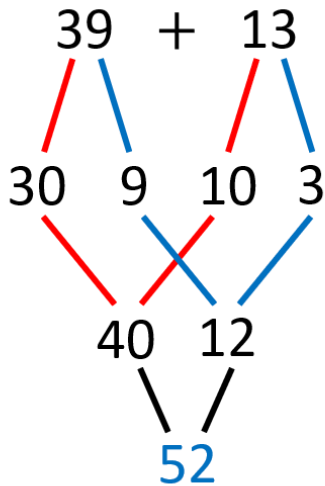
53 + 37

38 + 21

38 + 20 = 58

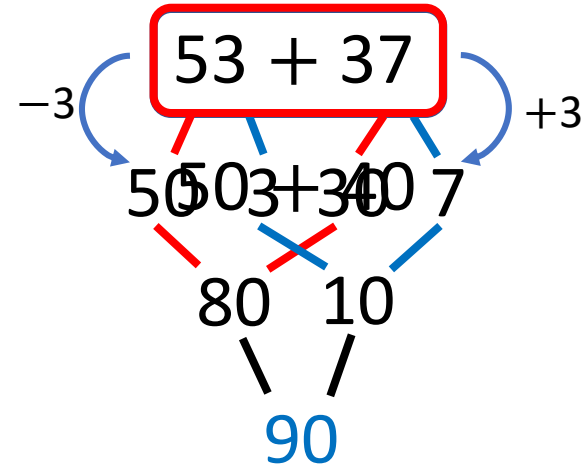
58 + 1 = 59

Strategy 1 –
Partitioning and adding

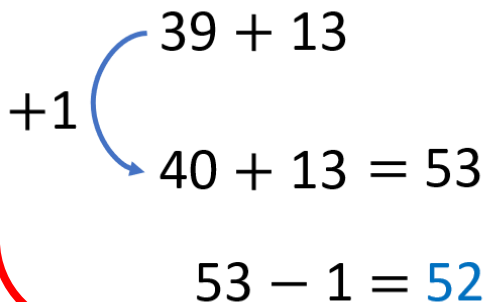


Which strategy *might*
you use for these
calculations?

38 + 21



Strategy 2 –
Round then add



In your head...

$$34 - 29$$

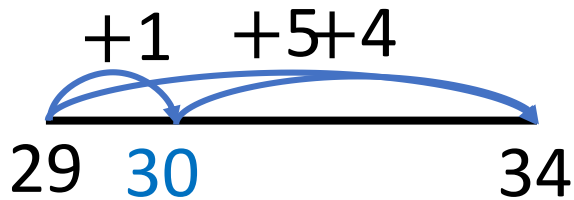
How did you do it?

Have a think

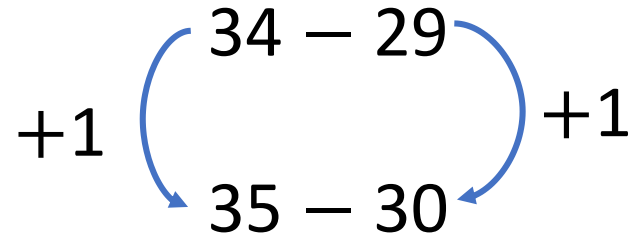


$$34 - 29 = 5$$

Strategy 1 –
Count on

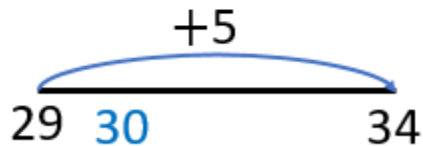


Strategy 2 –
Constant difference



Strategy 1 –
Count on

Have a think

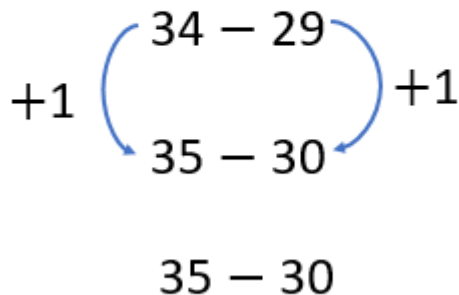


Which strategy *might*
you use for these
calculations?

Strategy 2 –
Constant difference

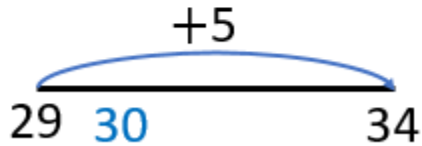
$$3,001 - 2,999$$

$$101 - 36$$



$$1,316 - 21$$

Strategy 1 –
Count on



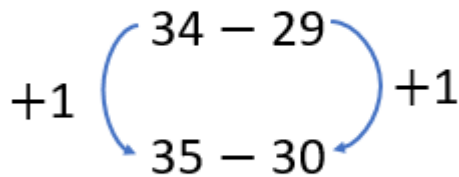
Which strategy *might*
you use for these
calculations?

$$3,001 - 2,999$$

$$101 - 36$$

$$2,999 + 2 = 3,001$$

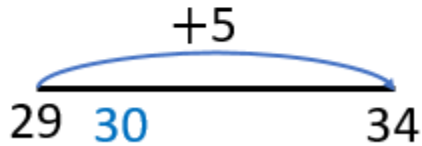
Strategy 2 –
Constant difference



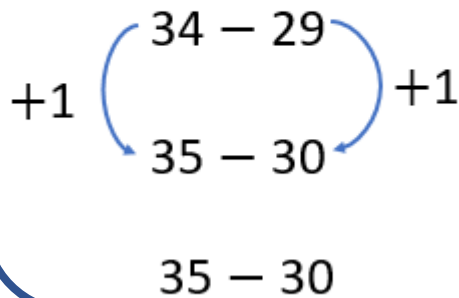
$$35 - 30$$

$$1,316 - 21$$

Strategy 1 –
Count on



Strategy 2 –
Constant difference



Which strategy *might*
you use for these
calculations?

$$3,001 - 2,999$$

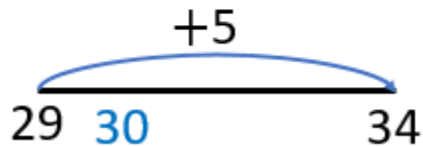
$$101 - 36$$

$$100 - 35$$

$$100 - 35 = 65$$

$$1,316 - 21$$

Strategy 1 –
Count on

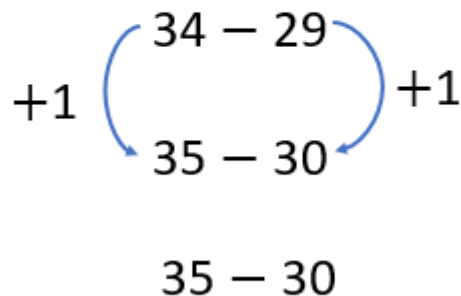


Which strategy *might*
you use for these
calculations?

$$3,001 - 2,999$$

$$101 - 36$$

Strategy 2 –
Constant difference



16 5

$1,316 - 21$

$1,316 - 16 - 5$

$1,300 - 5 = 1,295$

YOUR TURN

Have a go at questions
1 - 5 on the worksheet



In your head...

$$36 \times 5$$

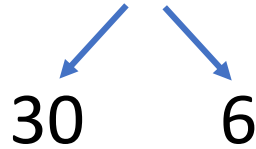
How did you do it?

Have a think



$$36 \times 5 = 180$$

Partition



Strategy 1 $30 \times 5 = 150$

Double and halve

$$6 \times 5 = 30$$

$\div 2$ 36×5 $\times 2$ $150 + 30 = 180$

$18 \times 10 = 180$

Strategy 2 –

Factors

$$36 \times 5$$

$$2 \times 18 \times 5$$

$$2 \times 5 \times 18$$

$$10 \times 18 = 180$$

Strategy 1 –
Double and halve

$$\div 2 \left(\begin{array}{c} 36 \times 5 \\ 18 \times 10 \end{array} \right) \times 2 = 180$$

Have a think



Which strategy *might*
you use for these
calculations?

Strategy 2 –
Factors

$$\begin{array}{c} 36 \times 5 \\ \swarrow \quad \searrow \\ 2 \times 18 \times 5 \\ 2 \times 5 \times 18 \\ 10 \times 18 = 180 \end{array}$$

$$20 \times 37$$

$$15 \times 14$$

Strategy 1 –

Double and halve

$$\begin{array}{c} 36 \times 5 \\ \div 2 \quad \left(\quad \right) \quad \times 2 \\ 18 \times 10 = 180 \end{array}$$

Which strategy *might* you use for these calculations?

$$20 \times 37$$

$$15 \times 14$$

$$10 \times 74 = 740$$

Strategy 2 –

Factors

$$\begin{array}{c} 36 \times 5 \\ \swarrow \quad \searrow \\ 2 \times 18 \times 5 \\ 2 \times 5 \times 18 \\ 10 \times 18 = 180 \end{array}$$

Strategy 1 –

Double and halve

$$\div 2 \left(\begin{array}{c} 36 \times 5 \\ \curvearrowright \\ 18 \times 10 \end{array} \right) \times 2 = 180$$

Which strategy *might* you use for these calculations?

$$20 \times 37$$

$$\begin{array}{c} \boxed{15 \times 14} \\ \diagdown \quad \diagup \quad \diagdown \quad \diagup \\ 3 \times 5 \times 2 \times 7 \\ \diagdown \quad \diagup \quad \diagdown \quad \diagup \\ 21 \times 10 = 210 \end{array}$$

Strategy 2 –

Factors

$$\begin{array}{c} 36 \times 5 \\ \diagdown \quad \diagup \\ 2 \times 18 \times 5 \\ 2 \times 5 \times 18 \\ 10 \times 18 = 180 \end{array}$$

YOUR TURN

Have a go at the rest of
the worksheet

