Day 1

Maths- 5 a day

1. 597 + 10 =

2. 56 + 178 =

3. 205 - 17 =

4. Write the number 482 in words.

5. Complete the number sequence

27, 24, 21, __, __

Day 1 ANSWERS

Maths- 5 a day

1. 597 + 10 = 607

2. 56 + 178 = 234

3. 205 - 17 = 188

4. Write the number 482 in words. Four hundred and eighty two.
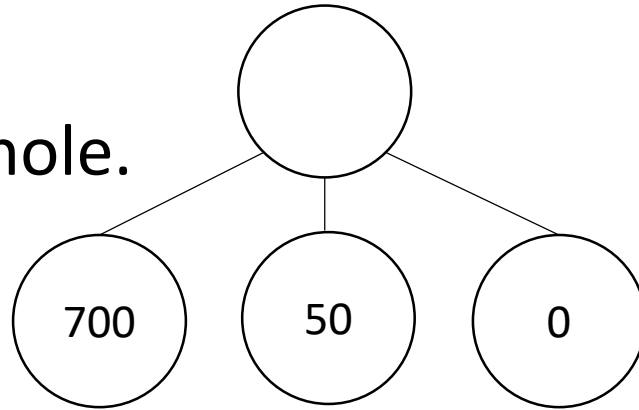
5. Complete the number sequence

27, 24, 21, 18, 15

Day 2

Maths- 5 a day

1. 728 + 125 =

2. 8 + 4 + 3 =

3. Complete the part part whole.

```
        (     )
       /   |   \
   (700) (50) (0)
```

4. Put these numbers in descending order.

   505, 550, 50, 55, 105

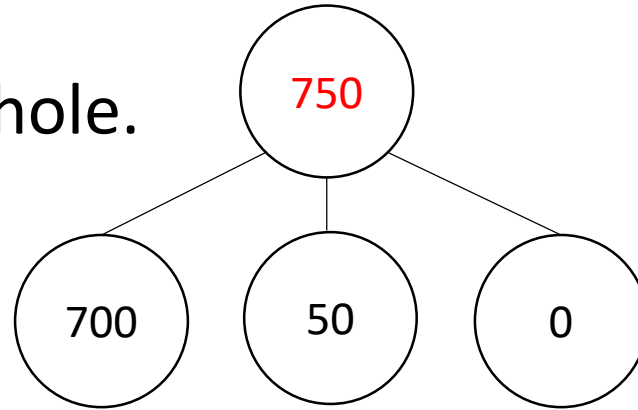5. How many sides do 3 squares have?

Day 2 ANSWER

Maths- 5 a day

1. 728 + 125 = 853

2. 8 + 4 + 3 = 15

3. Complete the part part whole.

   750

   700   50   0

4. Put these numbers in descending order.

   505, 550, 50, 55, 105

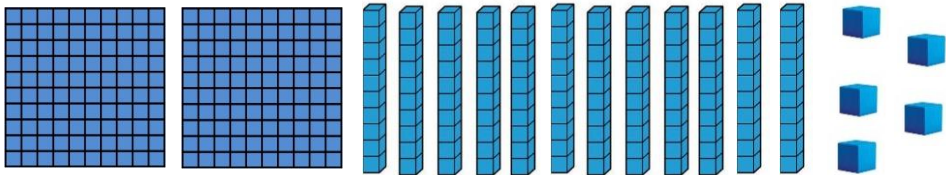   550, 505, 105, 55, 50

5. How many sides do 3 squares have? 12
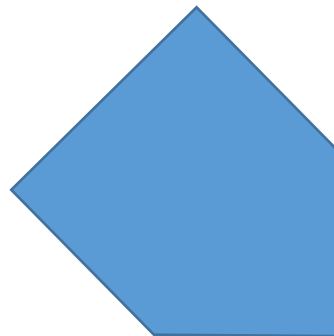
Day 3

Maths- 5 a day

1. 512 + 89 =

2. What is 100 less than 436?

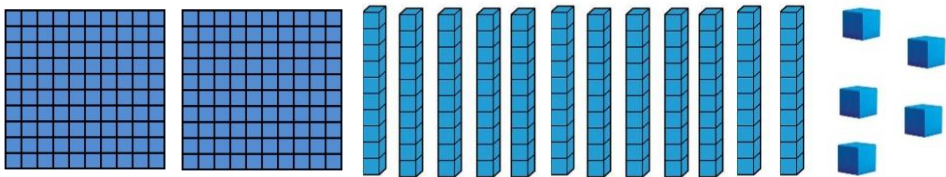3. What number is represented by the dienes?

4. 7 X 3 =

5. Name the shape.....
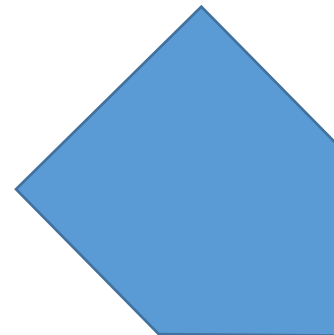
Day 3 ANSWERS

Maths- 5 a day

1. 512 + 89 = 601

2. What is 100 less than 436? 336

3. What number is represented by the dienes? 325

4. 7 X 3 = 21
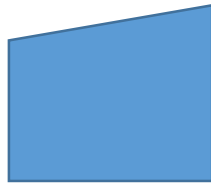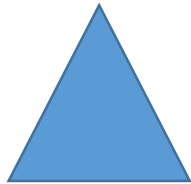
5. Name the shape….. Irregular pentagon

Day 4

Maths- 5 a day

1. 444 + 128 =

2. 350 - 26 =

3. 24 ÷ 4 =

4. Circle the quadrilaterals.

5. Complete the number sentence (<>=)

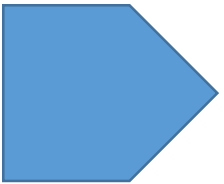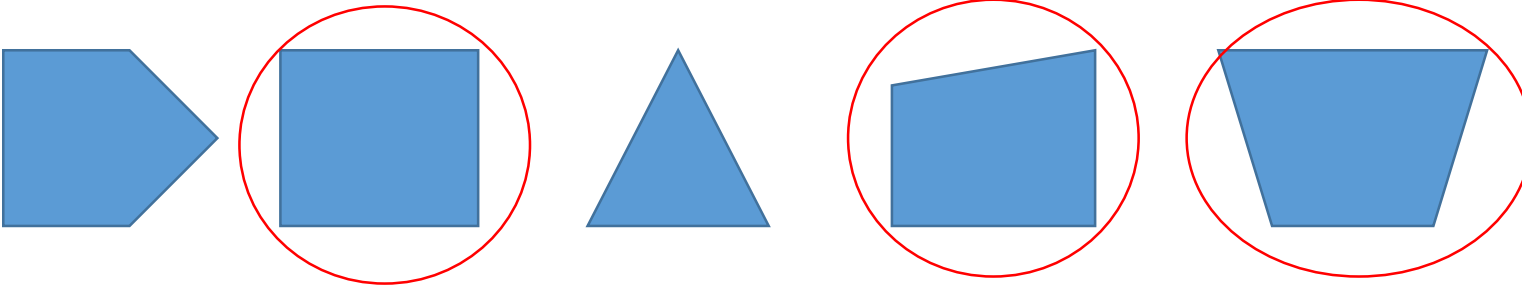   six hundred and seven __ 607

Day 4 ANSWERS

Maths- 5 a day

1. 444 + 128 = 572

2. 350 - 26 = 324

3. 24 ÷ 4 = 6

4. Circle the quadrilaterals.

5. Complete the number sentence (<>=)

   six hundred and seven = 607

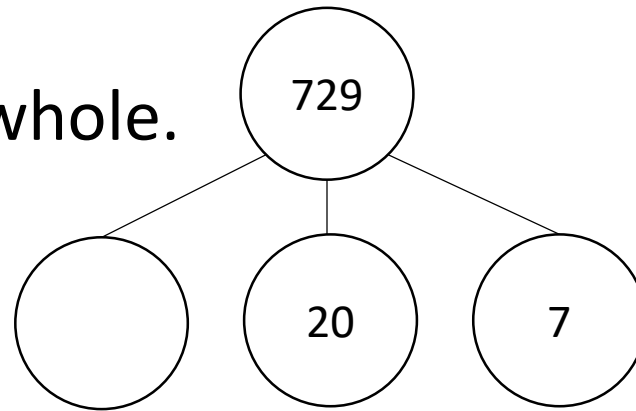# Day 5

1. 426 + 78 =

2. 277 - 39 =

3. Complete the part-part whole.

729

20   7

4. Complete the number sequence.

90, 80, 70, __, __

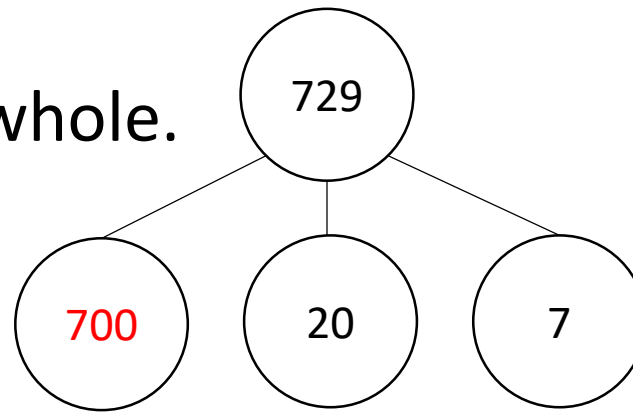5. What is the difference between 48 and 24?

Day 5 ANSWERS

Maths- 5 a day

1. 426 + 78 = 504

2. 277 - 39 = 238

3. Complete the part-part whole.

729

700　　20　　7

4. Complete the number sequence.

90, 80, 70, 60, 50

5. What is the difference between 48 and 24?

48 – 24 = 24

Week 2 task 1

TLHT add numbers using mental strategies

This week we are going to revise different mental strategies that we can use to add numbers.

Although we want you to practice all these strategies, when it comes to mental maths it is all about choosing the strategy that works best for you to calculate quickly and accurately.
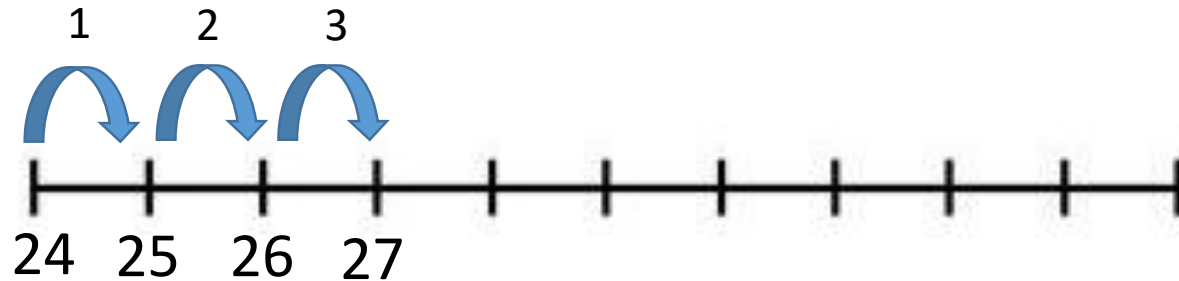
TLHT add numbers using mental strategies

Counting up

When you are adding small numbers (usually 1-5) you can simply count up in ones.

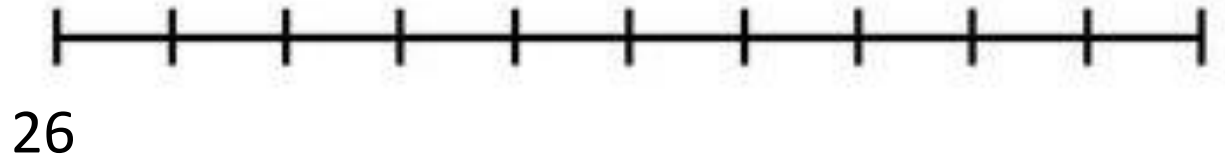# 24 + 3 = 27

We can show this using a number line like below.
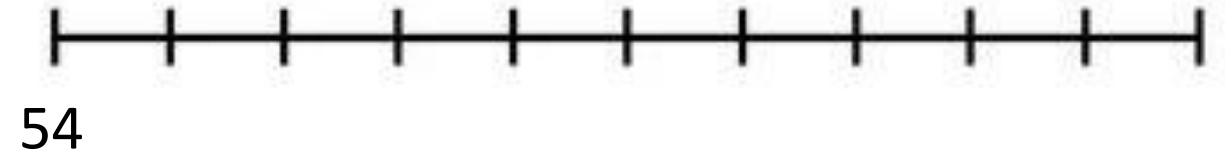
TLHT add numbers using mental strategies

Counting up

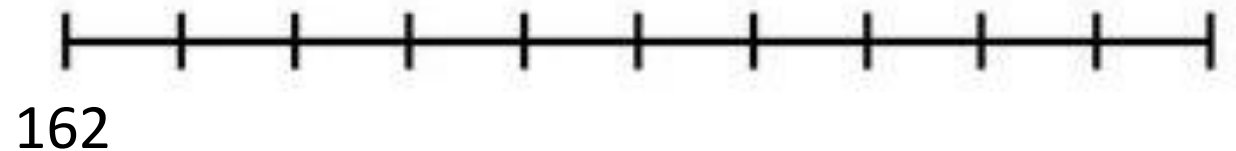Solve the additions by counting up using the number lines provided.
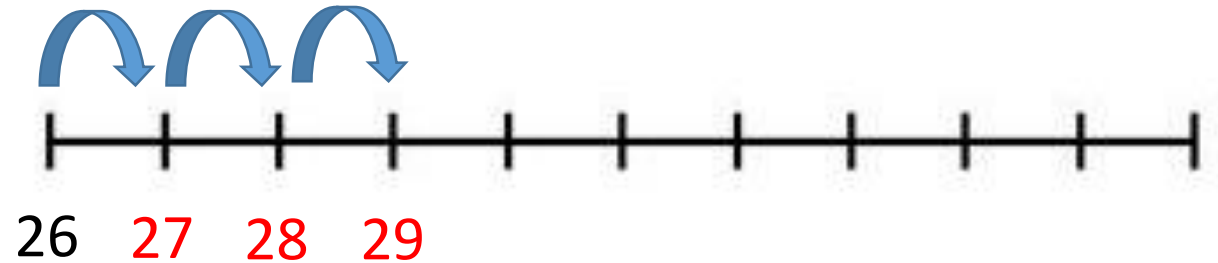
1. 26 + 3 =

26

2. 54 + 4 =

54

3. 162 + 2 =
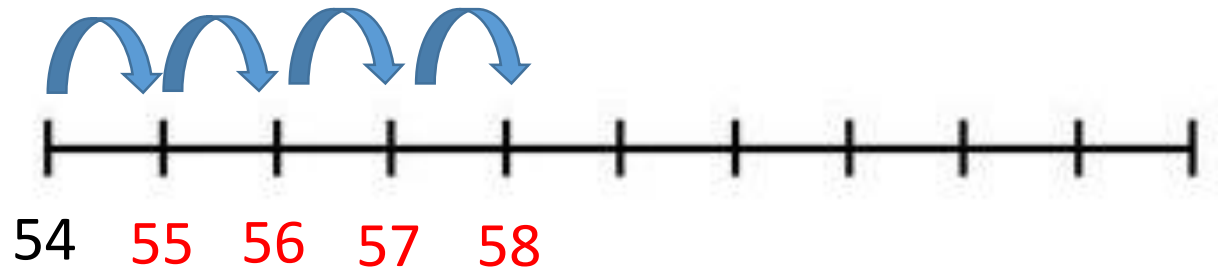
162

TLHT add numbers using mental strategies

Counting up ANSWERS

Solve the additions by counting up using the number lines provided.

1. 26 + 3 = 29

26 27 28 29

2. 54 + 4 = 58

54 55 56 57 58

3. 162 + 2 = 164

162 163 164

TLHT add numbers using mental strategies

Counting up

You can also count up in tens or hundreds if you are adding these...

123 + 30 = 153

123 + 300 = 423

TLHT add numbers using mental strategies

Counting up

Solve the additions by counting up using the number lines provided.

1. 132 + 30 =

132

2. 436 + 300 =

436

3. 162 + 20 =

162

TLHT add numbers using mental strategies

Counting up ANSWERS

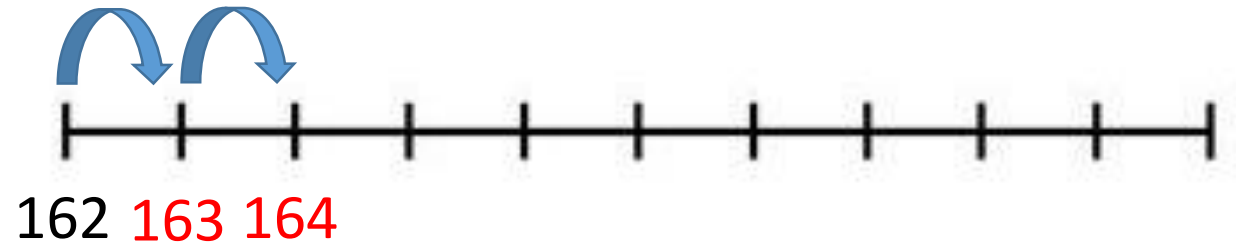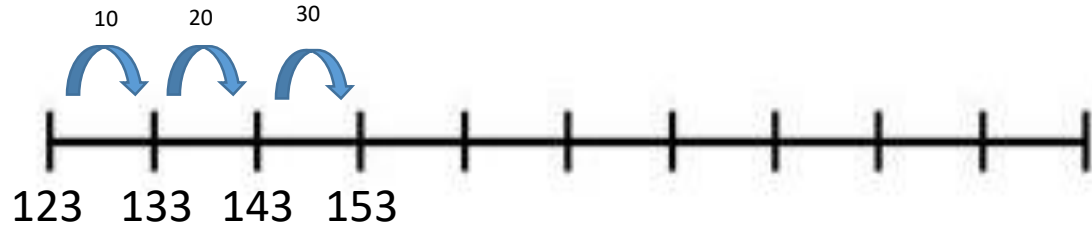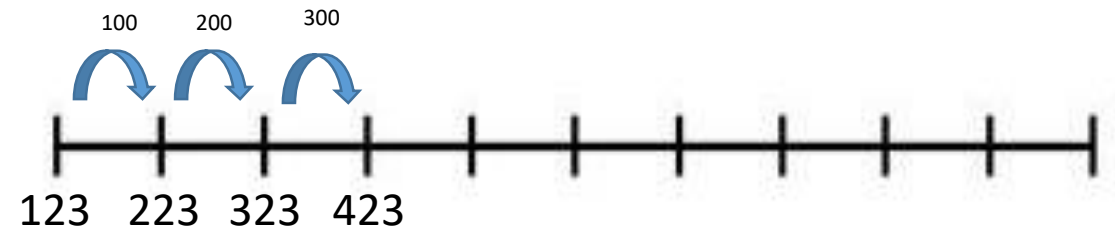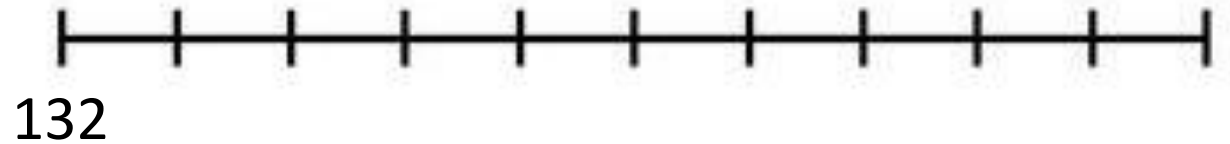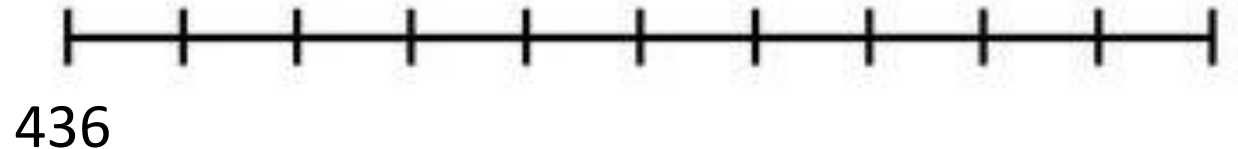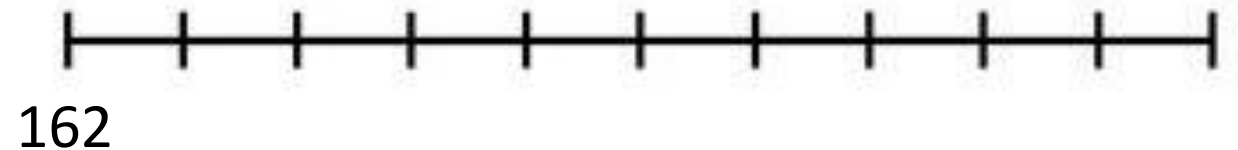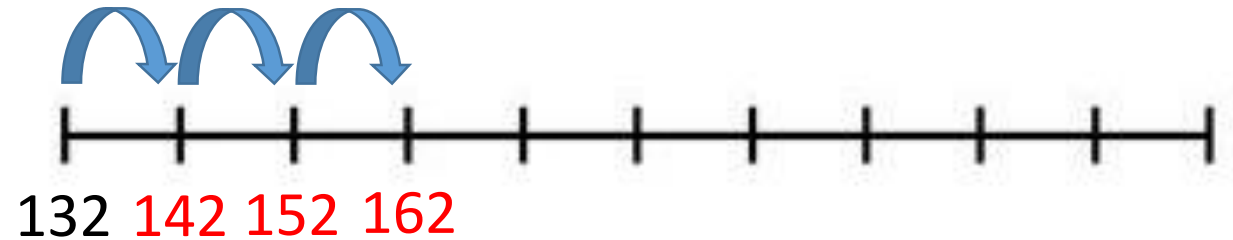Solve the additions by counting up using the number lines provided.

1. 132 + 30 = 162

132 142 152 162

2. 436 + 300 = 736

436 536 636 736
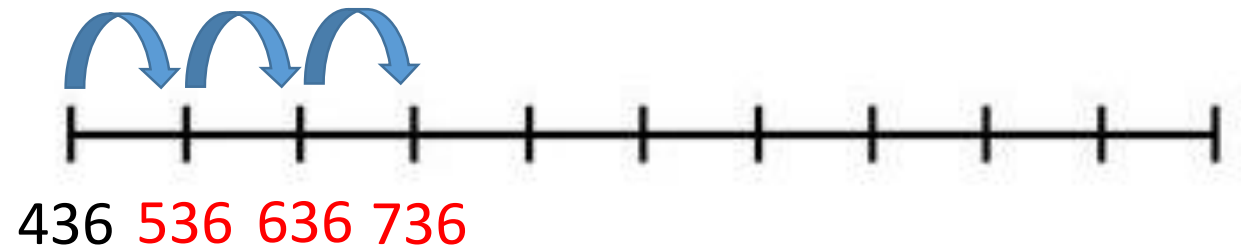
3. 162 + 20 = 182

162 172 182
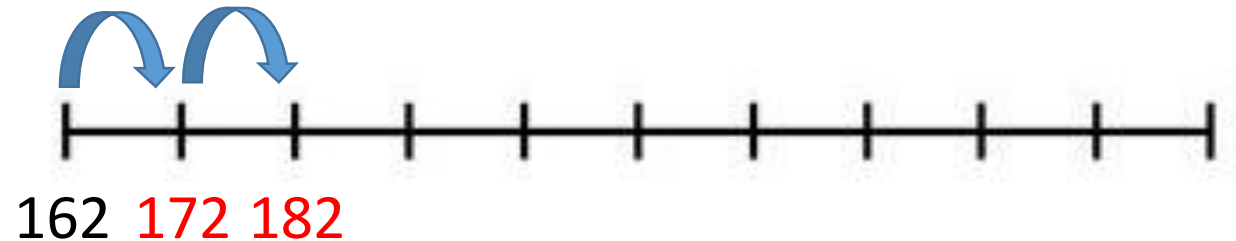
TLHT add numbers using mental strategies

Nearest 10

When your addition will cross over into the next ten you can jump to the next ten then add on what you have left over.

$$37 + 6 = 43$$

+3   +3

37   40   43
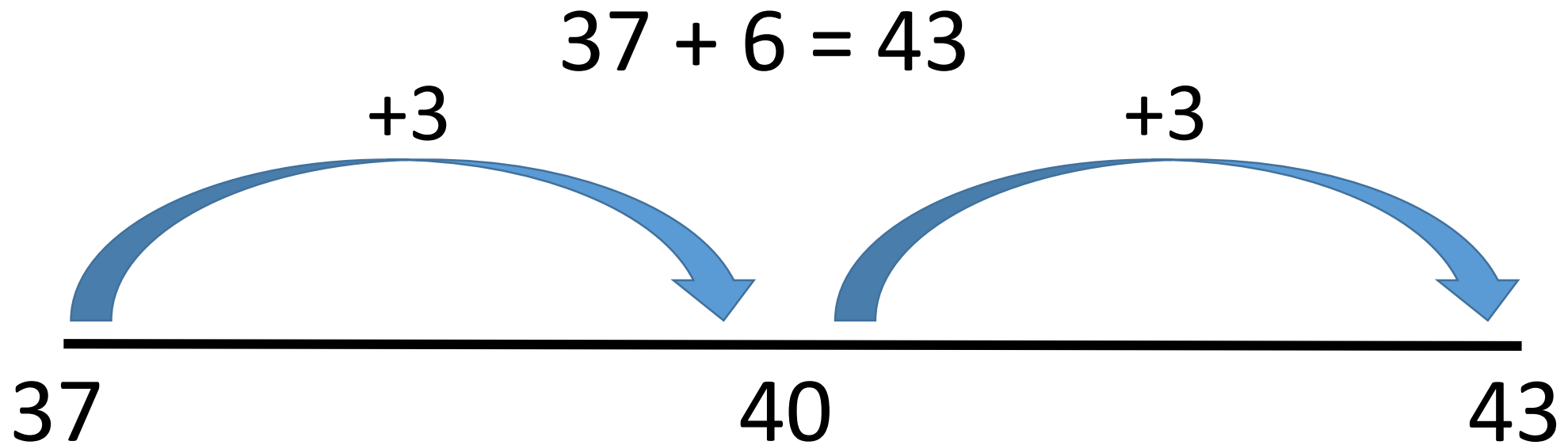
TLHT add numbers using mental strategies

Nearest 10
Use nearest 10 to solve these additions.

17 + 7 =   _____

38 + 5 =   _____

44 + 8 =   _____

TLHT add numbers using mental strategies

Nearest 10 ANSWERS

Use nearest 10 to solve these additions.

17 + 7 = 24

38 + 5 = 43

44 + 8 = 52

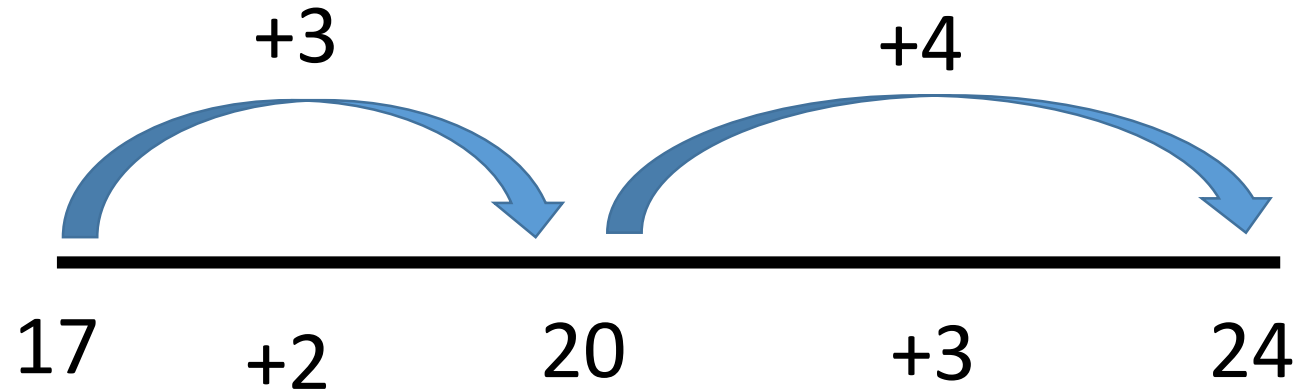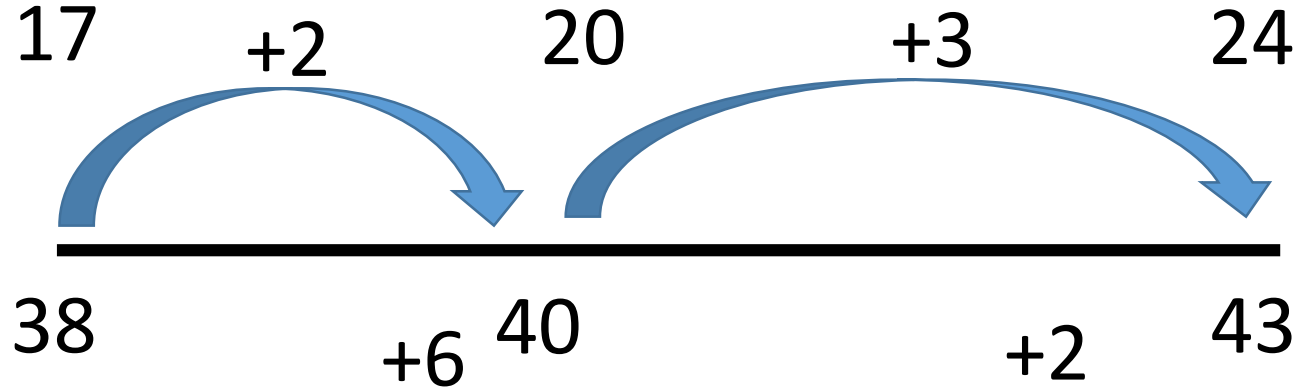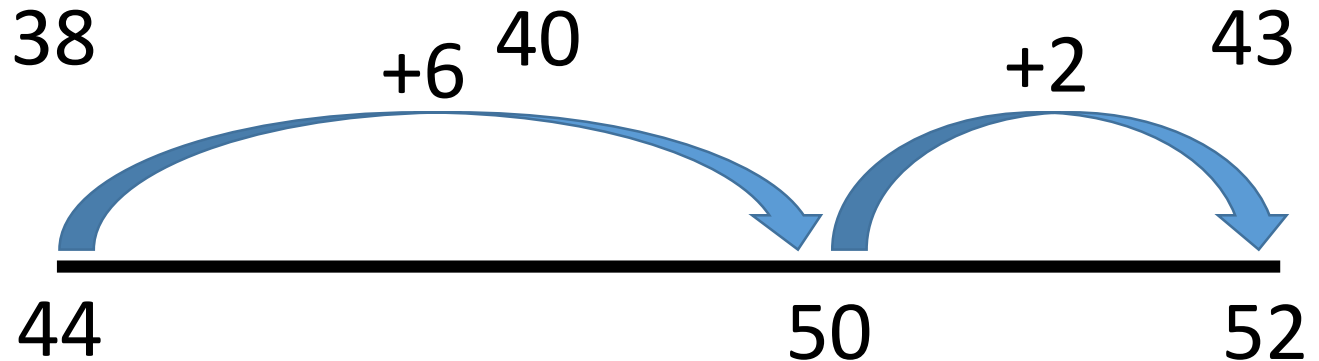# TLHT add numbers using mental strategies

Adjusting

In some addition calculations it can help to change the numbers to make them easier to add mentally. This is usually done to numbers with a 8 or 9 in the ones column.

$$36 + 9 =$$

We can make this addition simpler by changing 9 to a 10 by adding 1 to it.

$$36 + 10 = 46$$

We now need to make sure we subtract the 1 we added to the 9 so we get the answer to the original question..

$$46 - 1 = 45$$

TLHT add numbers using mental strategies
Adjusting

Use adjusting to solve these calculations. Show your working out like the example below.

44 + 8 =   44 + 10 = 54   54 – 2 = 52

1) 25 + 9 =

2) 63 + 8 =

3) 72 + 9 =

TLHT add numbers using mental strategies

Adjusting ANSWERS

Use adjusting to solve these calculations. Show your working out like the example below.

44 + 8 =   44 + 10 = 54   54 − 2 = 53

1) 25 + 9 = 34   25 + 10 = 35   35 − 1 = 34

2) 63 + 8 = 71   63 + 10 = 73   73 − 2 = 71
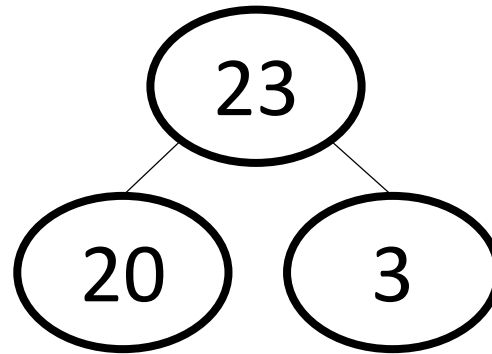
3) 72 + 9 =   72 + 10 = 82   82 − 1 = 81

TLHT add numbers using mental strategies

Partitioning

When you are adding numbers that have digits in more than one place value column it can help to partition one of the numbers and add the place value columns separately.

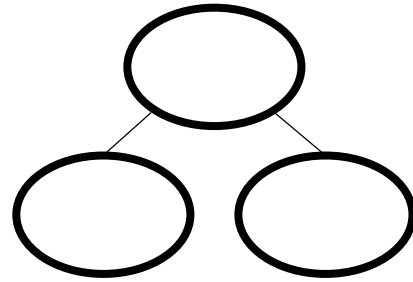$$56 + 23 =$$

$$56 + 20 = 76$$
$$76 + 3 = 79$$

Top tip: Make sure you add the second place value column to the answer you get from adding the first place value column.
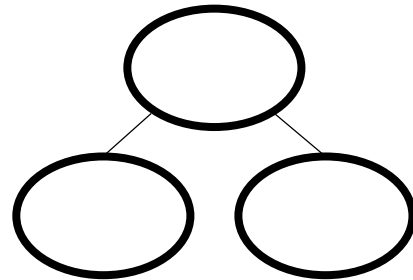
TLHT add numbers using mental strategies
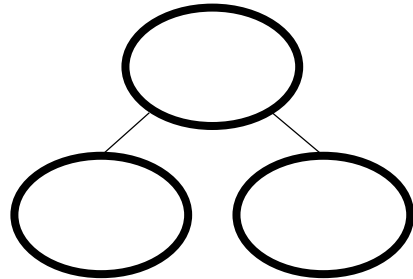
Partitioning

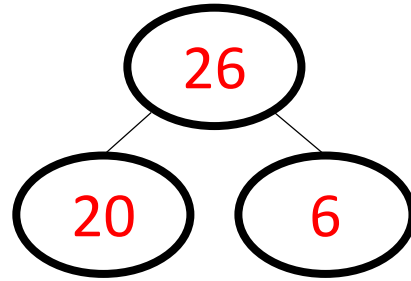Solve these additions using partitioning.

73 + 26 =

125 + 14 =

254 + 33 =

TLHT add numbers using mental strategies

Partitioning

Solve these additions using partitioning.

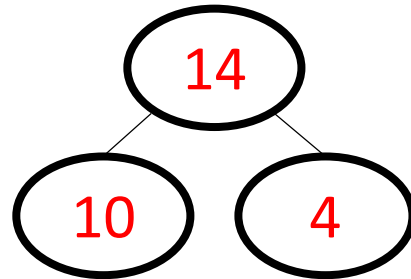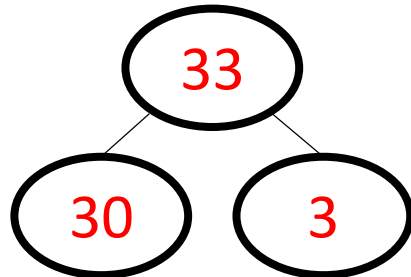73 + 26 = 99

26
20   6

73 + 20 = 93
93 + 6 = 99

125 + 14 = 139

14
10   4

125 + 10 = 135
135 + 4 = 139

254 + 33 = 287

33
30   3

254 + 30 = 284
284 + 3 = 287

Task 2

TLHT add numbers using mental strategies

TLHT add numbers using mental strategies

Solve these additions using the counting up strategy.
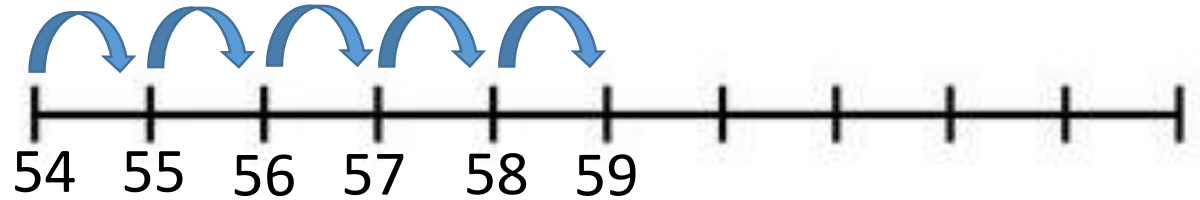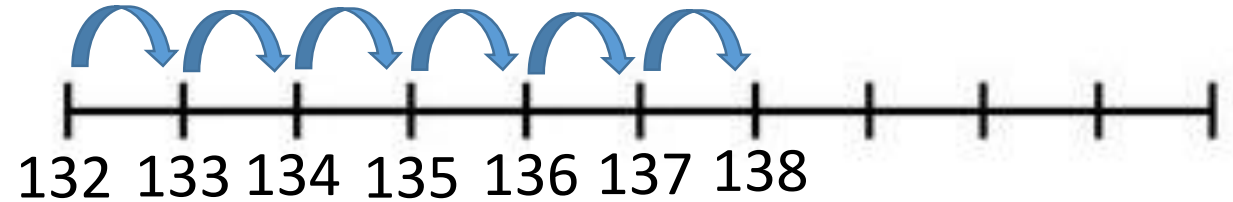
1. 54 + 5 =

2. 132 + 6 =

3. 23 + 40 =

4. 420 + 60 =

TLHT add numbers using mental strategies

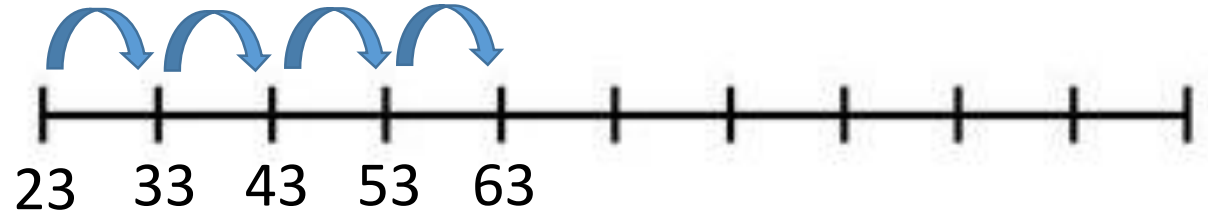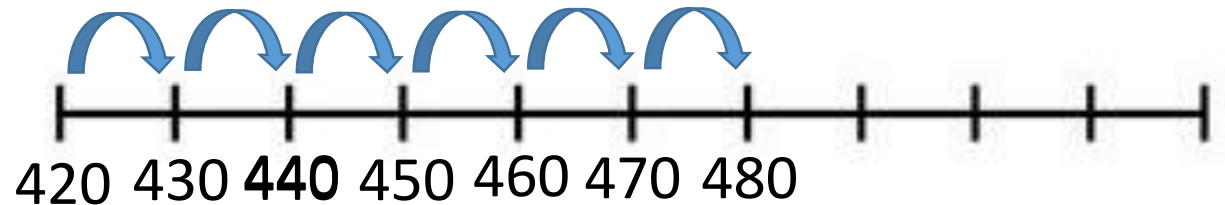Solve these additions using the nearest 10 strategy. ANSWERS

1. 54 + 5 = 59

2. 132 + 6 = 138

3. 23 + 40 = 63

4. 420 + 60 = 480

TLHT add numbers using mental strategies

Solve these additions using the nearest 10 strategy.

1. 157 + 6 =   _____
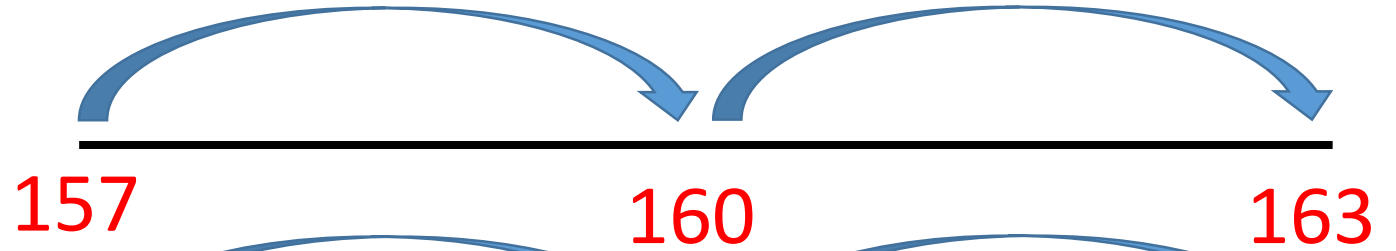
2. 78 + 4 =   _____

3. 528 + 5 =   _____

4. 464 + 7 =   _____

TLHT add numbers using mental strategies
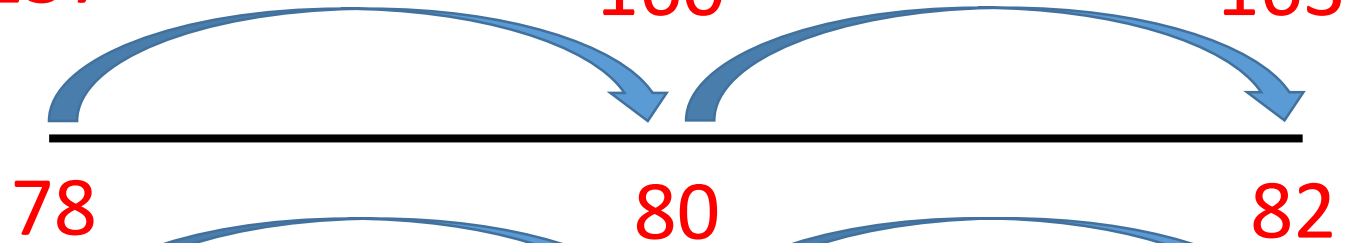
Solve these additions using the nearest 10 strategy. ANSWERS

1. 157 + 6 = 163

2. 78 + 4 = 82

3. 528 + 5 = 533

4. 464 + 7 = 471

157   160   163

78   80   82

528   530   533
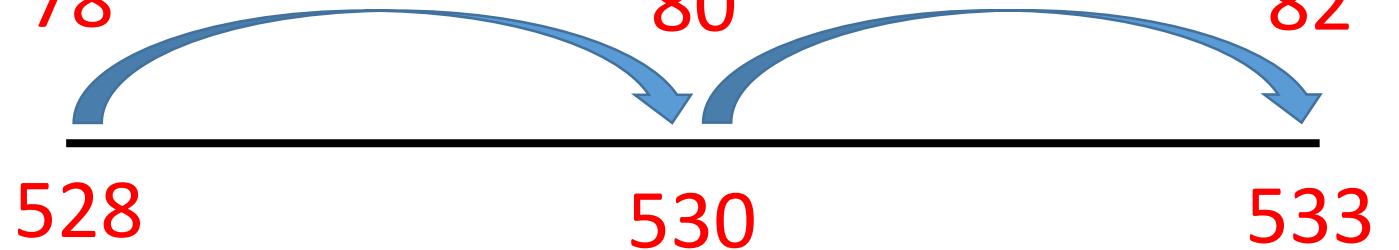
464   470   471

TLHT add numbers using mental strategies

Solve these additions using partitioning to help you.

1. 254 + 23 =

2. 722 + 42 =
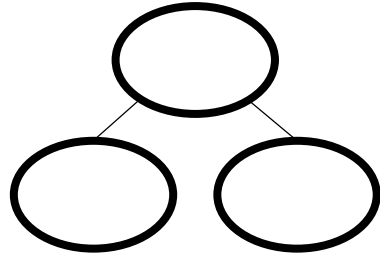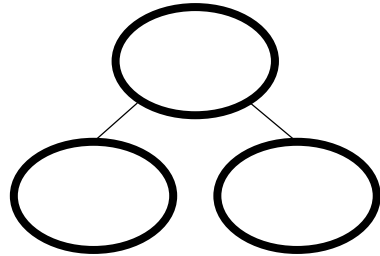
3. 635 + 24 =
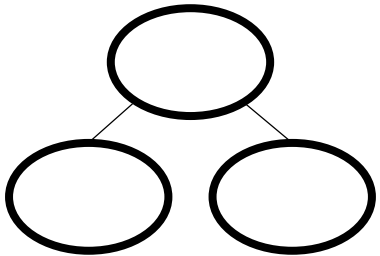
4. 411 + 67 =
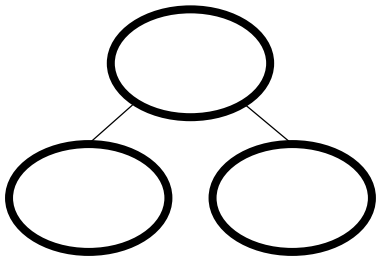
TLHT add numbers using mental strategies

Solve these additions using partitioning to help you. ANSWERS

1. 254 + 23 = 277

23
20   3
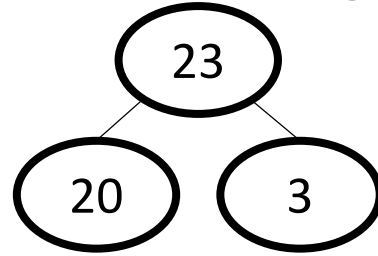
254 + 20 = 274   274 + 3 = 277

2. 722 + 42 = 764

42
40   2
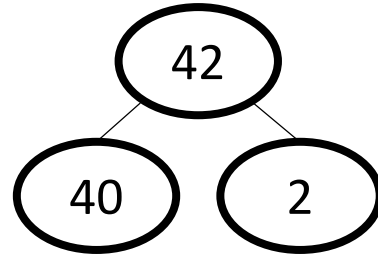
722 + 40 = 762   762 + 2 = 764

3. 635 + 24 = 659

24
20   4
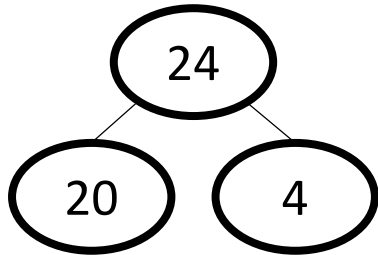
635 + 20 = 655   655 + 4 = 659

4. 411 + 67 = 478

67
60   7
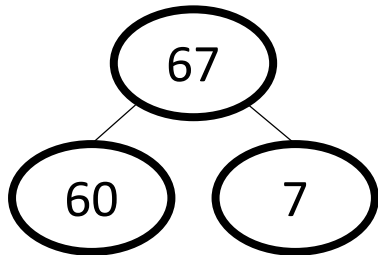
411 + 60 = 471   471 + 7 = 478

TLHT add numbers using mental strategies

Solve these additions using adjusting.

1. 43 + 9 =

2. 125 + 9 =

3. 512 + 8 =

4. 437 + 9 =

TLHT add numbers using mental strategies

Solve these additions using adjusting. ANSWERS

1. 43 + 9 = 52

   43 + 10 = 53   53 − 1 = 52

2. 125 + 9 = 134

   125 + 10 = 135   135 − 1 = 134

3. 512 + 8 = 520

   512 + 10 = 522   522 − 2 = 520

4. 437 + 9 = 446

   437 + 10 = 447   447 − 1 = 446

TLHT add numbers using mental strategies

Use the mental strategy of your choice to solve these additions. Show the method you used.

1. 125 + 30 =

2. 45 + 9 =

3. 222 + 45 =

4. 67 + 6 =

TLHT add numbers using mental strategies

Use the mental strategy of your choice to solve these additions. Show the method you used.

1. 125 + 30 = 155
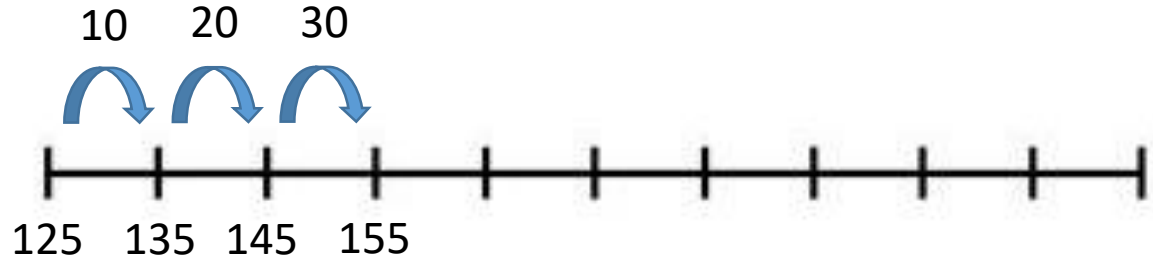
2. 35 + 9 = 44

3. 222 + 45 = 267

4. 67 + 6 = 73

35 + 10 = 45   45 − 1 = 44

222 + 40 = 262   262 + 5 = 267
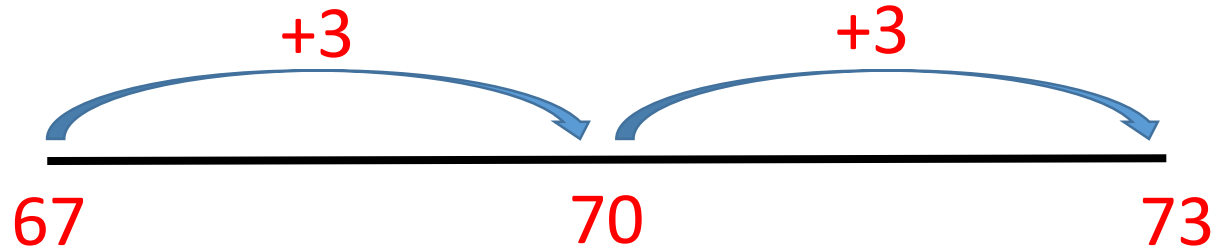
Task 3

TLHT add numbers using mental strategies

TLHT add numbers using mental strategies

These children are solving the addition 124 + 9 using adjusting. Who has adjusted correctly?

April

124 + 10 = 134
134 + 1 = 135

124 + 6 = 130
130 + 3 = 133

What do you think?

Ben

124 + 10 = 134
134 – 1 = 133

124 + 9 = 133
133 + 1 = 134

May

Simeon

TLHT add numbers using mental strategies

ANSWER

These children are solving the addition 124 + 9 using adjusting. Who has adjusted correctly?

April
$$124 + 10 = 134$$
$$134 + 1 = 135$$

Ben
$$124 + 6 = 130$$
$$130 + 3 = 133$$

What do you think?

May
$$124 + 10 = 134$$
$$134 - 1 = 133$$

Simeon
$$124 + 9 = 133$$
$$133 + 1 = 134$$

TLHT add numbers using mental strategies

Write the method you would use to solve these mental additions. You do not have to solve them.

1) 146 + 7 =

2) 534 + 9 =

3) 612 + 45 =

4) 67 + 8 =

TLHT add numbers using mental strategies

Write the method you would use to solve these mental additions. You do not have to solve them. ANSWERS

1) 146 + 7 =   **Nearest 10**

2) 534 + 9 =   **Adjusting**
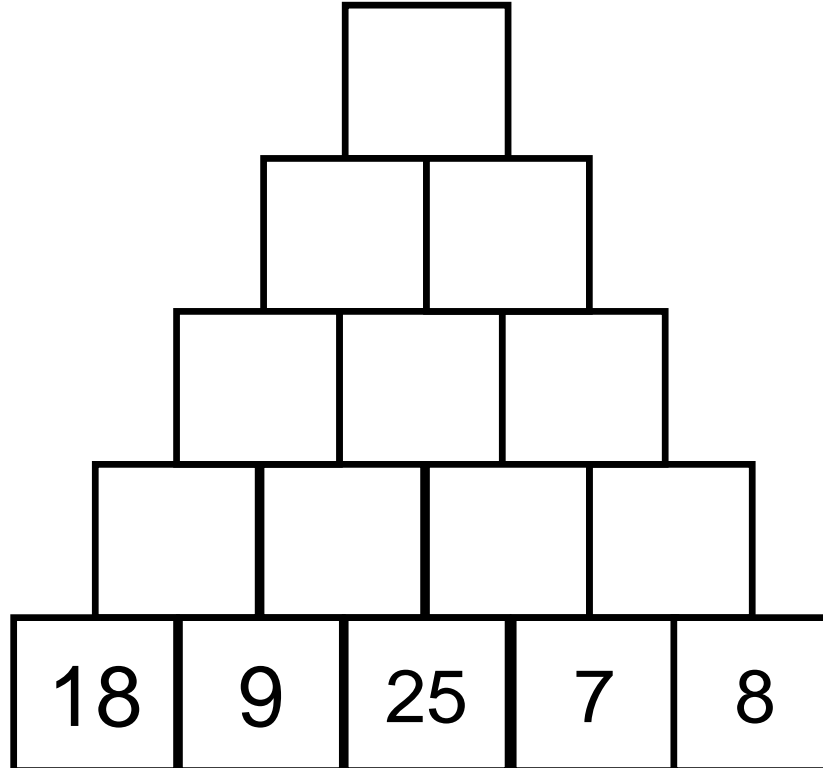
3) 612 + 45 =   **Partitioning**

4) 67 + 8 =   **Adjusting**

TLHT add numbers using mental strategies

Complete the number pyramid by adding the two number below to find the number in the box above..
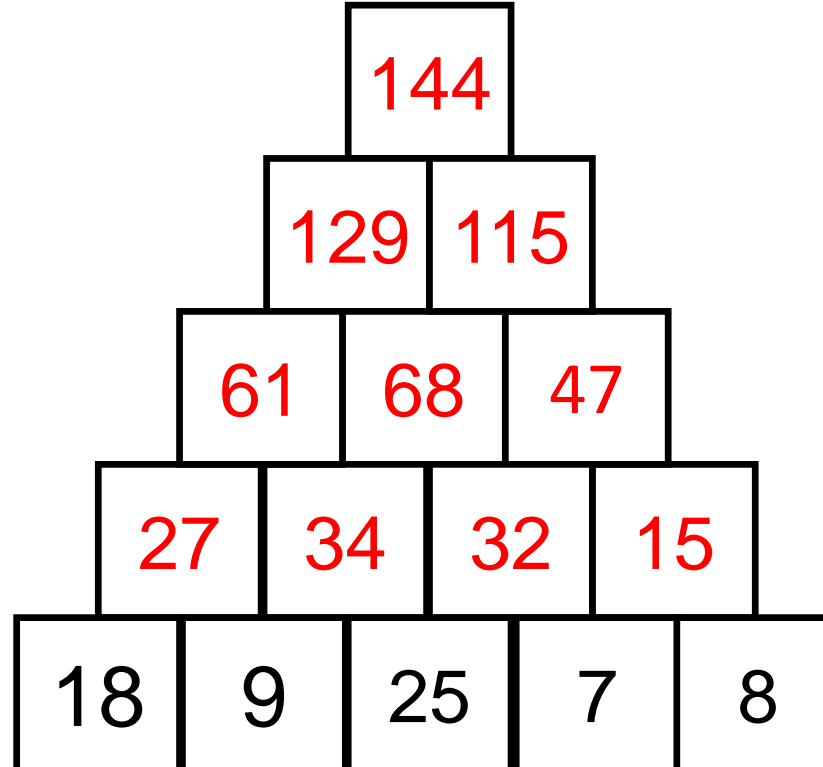
| 18 | 9 | 25 | 7 | 8 |

TLHT add numbers using mental strategies

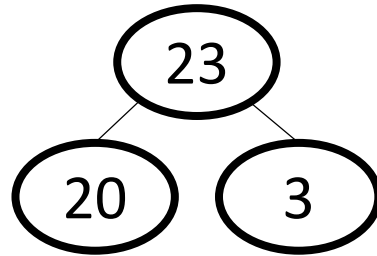Complete the number pyramid by adding the two numbers below to find the number in the box above. ANSWERS.

```
                  144
              129     115
           61     68     47
        27     34     32     15
     18     9     25     7     8
```

TLHT add numbers using mental strategies

These addition calculations are wrong. Explain the mistakes that have been made.

$$134 + 23 = 137$$

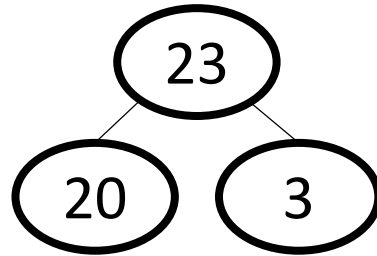
$$134 + 20 = 154 \qquad 134 + 3 = 137$$

_____

_____

$$344 + 9 = 355$$

$$344 + 10 = 354 \quad 354 + 1 = 355$$

_____

_____

TLHT add numbers using mental strategies

These addition calculations are wrong. Explain the mistakes that have been made. ANSWERS

$134 + 23 = 137$

23
20   3

$134 + 20 = 154$ $134 + 3 = 137$

They have added the ones to 134 rather than adding them to 154. This means they haven't added the 20.

$344 + 9 = 355$ $344 + 10 = 354$ $354 + 1 = 355$

They have added 1 to 354 rather than subtracted 1. This means they have added 11 to 344 rather than 9.