



MATHEMATICS



N.S. Yr. 2 P.35

**Add or subtract $\frac{9}{19}$ $\frac{11}{21}$
Use patterns and relationships**

Equipment

Paper, pencil, ruler

MathSphere

© MathSphere P.O. Box 1234 Worthing BN13 2UJ www.mathsphere.co.uk

Concepts

Having gained confidence in adding nine to a single digit by adding ten and subtracting one, the next stage is to extend this to adding nine to any two digit number, using the same method.

There are exceptions to this: for example adding nine to a multiple of ten would not need this method as it is easier just to add the nine.

When children are confident with adding nine they can be introduced to adding nineteen; much the same method of adding twenty and subtracting one.

It is generally recognised that when working ‘in our heads’ we usually start with the tens and then go to the units – the opposite of the traditional pencil and paper methods!

In the same way subtracting nine can be extended to any two digit number and then progress to subtracting nineteen by subtracting twenty and then adding one.

Another important concept is that for every addition sum there is a corresponding subtraction sum.

So three numbers such as 2, 3 and 5 can generate four sums:

$$2 + 3 = 5$$

$$3 + 2 = 5$$

$$5 - 2 = 3$$

$$5 - 3 = 2$$

Plenty of practice with this kind of pattern will certainly help children see this correspondence.

Adding 9

Remember how you added 9 to a number by adding ten and then subtracting one?

Well, here are some more, harder ones, this time.

Do them the same way.

1. $23 + 9 =$

2. $35 + 9 =$

3. $47 + 9 =$

4. $52 + 9 =$

5. $28 + 9 =$

6. $36 + 9 =$

7. $51 + 9 =$

8. $44 + 9 =$

9. $20 + 9 =$

10. $39 + 9 =$

Adding 9

Remember: add ten and then take away one is usually the best way to do these – but not always (not when you add 9 to a whole ten eg $50 + 9$)

1. $42 + 9 =$

2. $57 + 9 =$

3. $65 + 9 =$

4. $70 + 9 =$

5. $81 + 9 =$

6. $66 + 9 =$

7. $78 + 9 =$

8. $83 + 9 =$

9. $64 + 9 =$

10. $89 + 9 =$

Add 11

Adding eleven is even easier than adding 9.

This time just add ten and then add another one.

Piece of cake!

(mmm I am rather hungry!)

Add 11 to these by adding ten and then adding one.

1. $38 + 11 =$

2. $75 + 11 =$

3. $46 + 11 =$

4. $19 + 11 =$

5. $23 + 11 =$

6. $26 + 11 =$

7. $50 + 11 =$

8. $67 + 11 =$

9. $84 + 11 =$

10. $80 + 11 =$

Add 11

You should be able to whizz through these.

Add 11 to these by adding ten and then adding one.

1. $53 + 11 =$

2. $49 + 11 =$

3. $81 + 11 =$

4. $26 + 11 =$

5. $72 + 11 =$

6. $35 + 11 =$

7. $68 + 11 =$

8. $54 + 11 =$

9. $70 + 11 =$

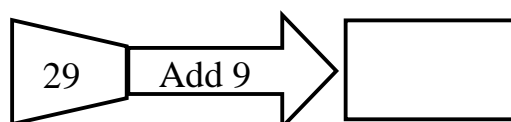
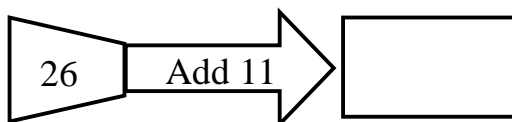
10. $87 + 11 =$

Add 9 and 11

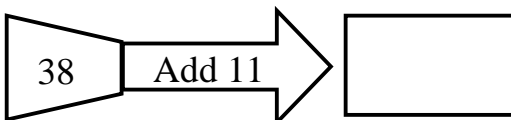
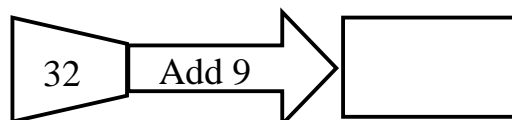
Put the answers to these
in the boxes.
Good luck!



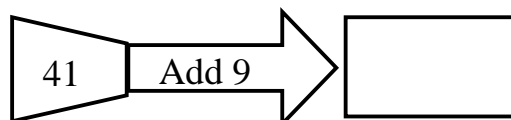
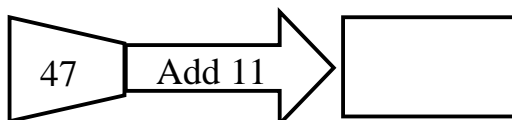
1.



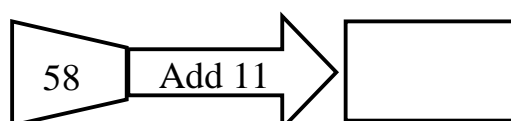
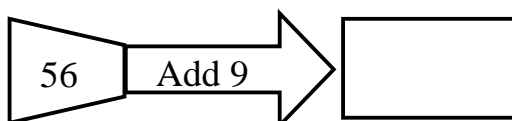
2.



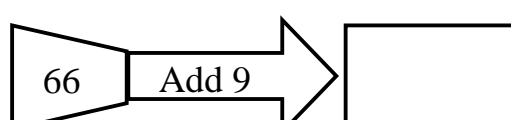
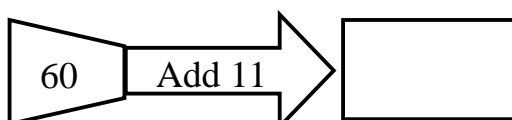
3.



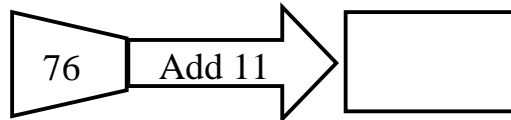
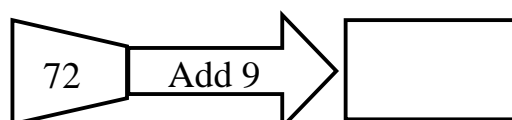
4.



5.



6.

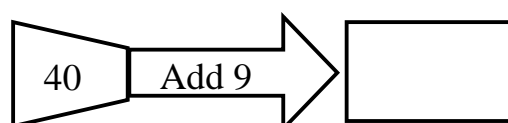
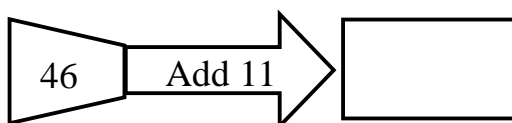


Add 9 and 11

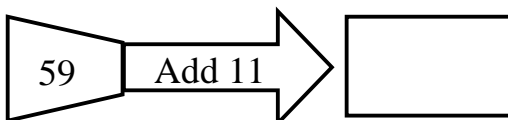
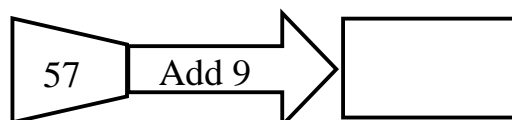
Put the answers to these
in the boxes.
Make sure you do the
correct sum!



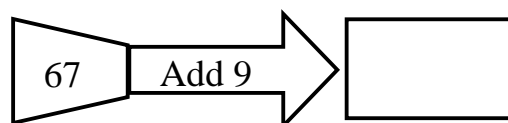
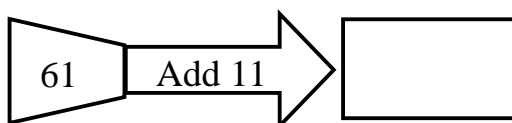
1.



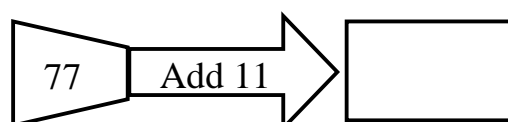
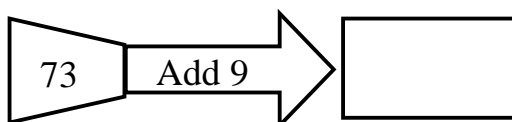
2.



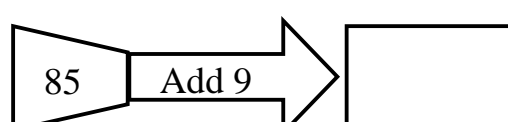
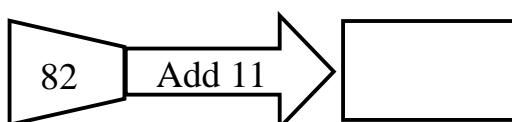
3.



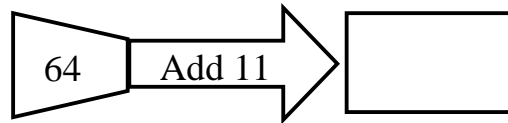
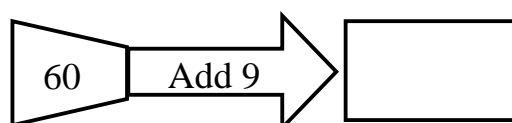
4.



5.



6.



Add 19

Now you can add nine easily try adding 19.

All you do is add 20 and then subtract 1.

Have a go at these....

Add 19 to these by adding twenty and then subtracting one.

1. $36 + 19 =$

2. $72 + 19 =$

3. $44 + 19 =$

4. $17 + 19 =$

5. $21 + 19 =$

6. $29 + 19 =$

7. $58 + 19 =$

8. $69 + 19 =$

9. $42 + 19 =$

10. $47 + 19 =$

Add 19

Have a go at adding 19.
Remember it is easier than it
looks.....
Add 20 then take away 1.

Add 19 to these by adding twenty and then subtracting one.

1. $45 + 19 =$

2. $81 + 19 =$

3. $53 + 19 =$

4. $26 + 19 =$

5. $39 + 19 =$

6. $48 + 19 =$

7. $67 + 19 =$

8. $78 + 19 =$

9. $50 + 19 =$

10. $56 + 19 =$

Add 21

Now you've cracked adding 11,
try adding 21 to these numbers.
Just add 20 and then add on one
more.

Always add the tens first.

Add 21 to these by adding twenty and then adding one.

1. $23 + 21 =$

2. $26 + 21 =$

3. $32 + 21 =$

4. $37 + 21 =$

5. $41 + 21 =$

6. $48 + 21 =$

7. $60 + 21 =$

8. $66 + 21 =$

9. $72 + 21 =$

10. $79 + 21 =$

Add 21

I can't wait to be 21 years old. I'm 7 now so I've only got another... Err....err...err.... 14 years to go!!

Try adding 21 to these numbers.

Add 21 to these by adding twenty and then adding one.

1. $25 + 21 =$

2. $28 + 21 =$

3. $33 + 21 =$

4. $36 + 21 =$

5. $42 + 21 =$

6. $49 + 21 =$

7. $61 + 21 =$

8. $68 + 21 =$

9. $74 + 21 =$

10. $77 + 21 =$

Addition patterns

$$4 + 5 = 9$$

$$14 + 5 = 19$$

$$24 + 5 = 29$$



Can you see the pattern here?
Try and carry it on by filling in the
missing numbers below.

$$34 + 5 = \square$$

$$44 + 5 = \square$$

$$\square + 5 = 59$$

$$64 + \square = \square$$

$$\square + 5 = \square$$

$$\square + \square = \square$$

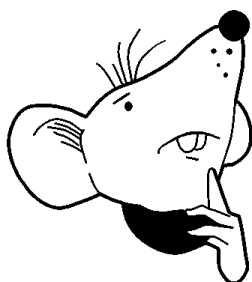
$$\square + \square = \square$$

Addition patterns

$$5 + 3 = 8$$

$$15 + 3 = 18$$

$$25 + 3 = 28$$



Can you see the pattern here?
Try and carry it on by filling in the
missing numbers below.

$$35 + 3 = \square$$

$$45 + 3 = \square$$

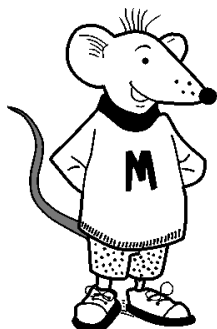
$$\square + 3 = 58$$

$$65 + \square = \square$$

$$\square + 3 = \square$$

$$\square + \square = \square$$

$$\square + \square = \square$$

Subtracting 9

Can you remember how to subtract 9?

To subtract 9 from a number take away 10 and then add 1 to the answer.

1. $34 - 9 =$

2. $36 - 9 =$

3. $42 - 9 =$

4. $55 - 9 =$

5. $26 - 9 =$

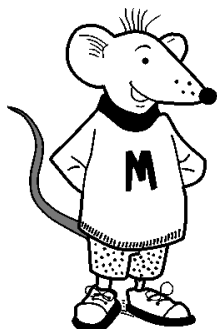
6. $33 - 9 =$

7. $51 - 9 =$

8. $40 - 9 =$

9. $22 - 9 =$

10. $37 - 9 =$

Subtracting 9

Remember: **subtract ten**
and then **add one** is usually
the best way to do these.

1. $38 - 9 =$

2. $43 - 9 =$

3. $57 - 9 =$

4. $60 - 9 =$

5. $77 - 9 =$

6. $81 - 9 =$

7. $94 - 9 =$

8. $25 - 9 =$

9. $17 - 9 =$

10. $99 - 9 =$

Subtract 11

Subtracting 11 is best done by subtracting 10 and then taking another 1 off the answer.

Try these:

Subtract 11 from these by subtracting ten and then taking one more.

1. $38 - 11 =$

2. $75 - 11 =$

3. $46 - 11 =$

4. $19 - 11 =$

5. $23 - 11 =$

6. $26 - 11 =$

7. $50 - 11 =$

8. $67 - 11 =$

9. $84 - 11 =$

10. $80 - 11 =$

Subtract 11

I bet you are really doing well on these!

Subtract 11 from these by subtracting ten and then taking one more.

1. $53 - 11 =$

2. $49 - 11 =$

3. $81 - 11 =$

4. $26 - 11 =$

5. $72 - 11 =$

6. $35 - 11 =$

7. $68 - 11 =$

8. $54 - 11 =$

9. $70 - 11 =$

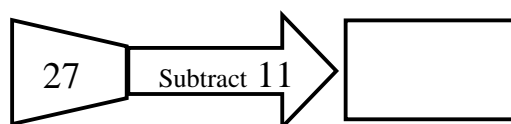
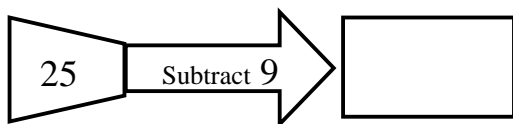
10. $87 - 11 =$

Subtract 9 and 11

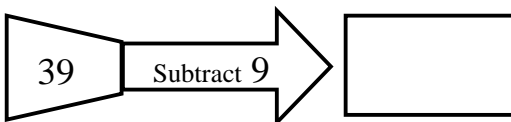
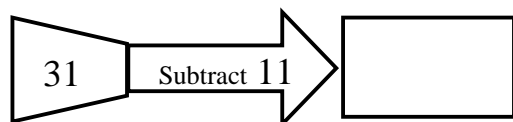
Put the answers to these
in the boxes.
Good luck!



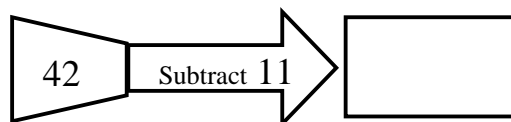
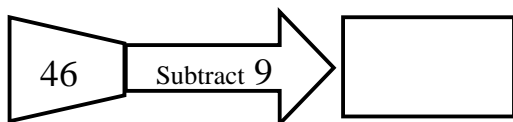
1.



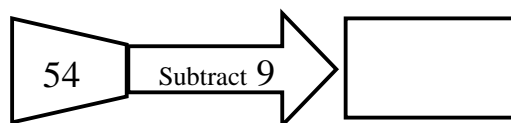
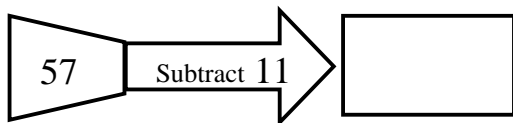
2.



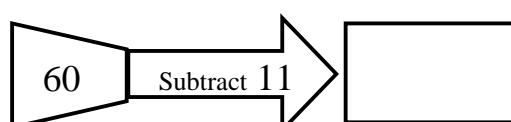
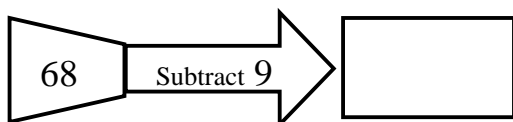
3.



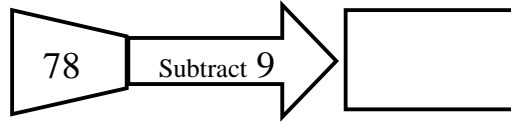
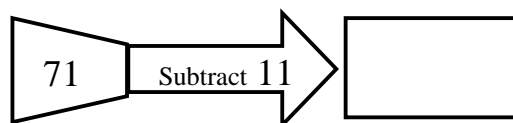
4.



5.



6.

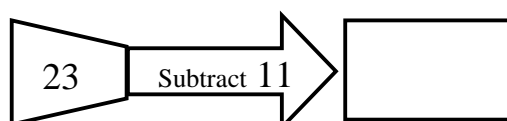
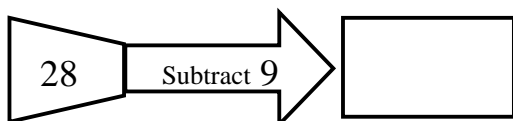


Subtract 9 and 11

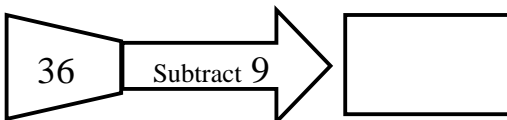
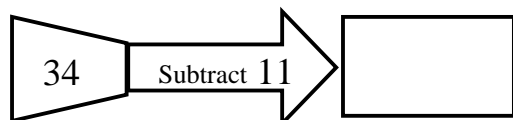
Put the answers to these
in the boxes.
Make sure you do the
correct sum!



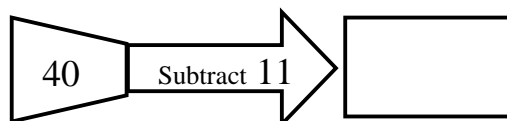
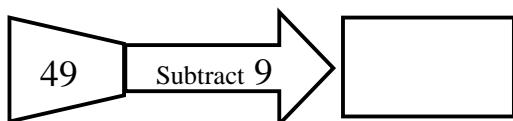
1.



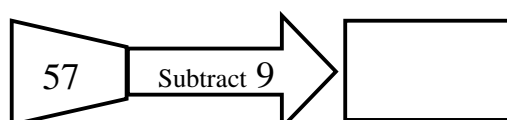
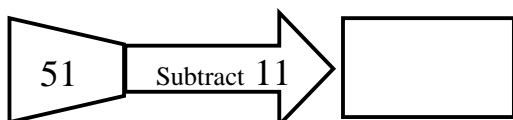
2.



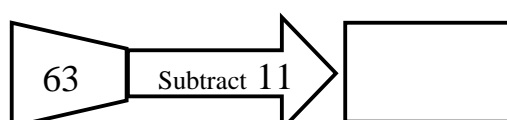
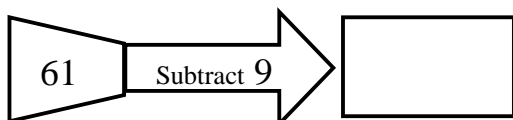
3.



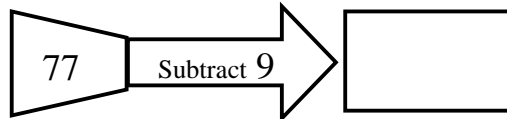
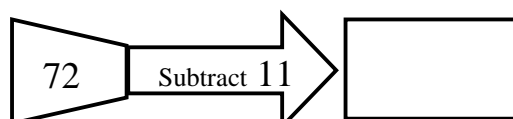
4.



5.



6.



Subtract 19

Subtracting 19 is as easy as subtracting 9. Just take twenty off and then add one to the answer! Simple eh!

Subtract 19 from these by subtracting twenty and then adding one.

1. $33 - 19 =$

2. $38 - 19 =$

3. $42 - 19 =$

4. $48 - 19 =$

5. $23 - 19 =$

6. $27 - 19 =$

7. $54 - 19 =$

8. $51 - 19 =$

9. $40 - 19 =$

10. $46 - 19 =$

Subtract 19

Have a go at subtracting 19.
Remember it is easier than it
looks.....
Subtract 20 then add 1.

Subtract 19 from these by subtracting twenty and then adding one.

1. $93 - 19 =$

2. $98 - 19 =$

3. $92 - 19 =$

4. $95 - 19 =$

5. $88 - 19 =$

6. $80 - 19 =$

7. $81 - 19 =$

8. $84 - 19 =$

9. $78 - 19 =$

10. $73 - 19 =$

Subtract 21

Once you can manage to subtract 19 then taking away 21 should be dead easy!

Just take twenty and then subtract another one!

Subtract 21 from these by subtracting twenty and then taking another one.

1. $78 - 21 =$

2. $75 - 21 =$

3. $82 - 21 =$

4. $80 - 21 =$

5. $93 - 21 =$

6. $96 - 21 =$

7. $88 - 21 =$

8. $83 - 21 =$

9. $74 - 21 =$

10. $70 - 21 =$

Subtract 21

My dad says he would like to take 21 off his age! He'd still be over 21 though.

Try taking 21 off these:

Subtract 21 from these by subtracting twenty and then taking one more.

1. $64 - 21 =$

2. $67 - 21 =$

3. $71 - 21 =$

4. $76 - 21 =$

5. $65 - 21 =$

6. $68 - 21 =$

7. $93 - 21 =$

8. $99 - 21 =$

9. $70 - 21 =$

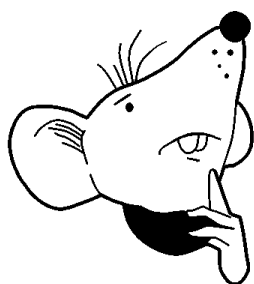
10. $91 - 21 =$

Subtraction patterns

$$5 - 4 = 1$$

$$15 - 4 = 11$$

$$25 - 4 = 21$$



Can you see the pattern here?
Try and carry it on by filling in the
missing numbers below.

$$35 - 4 = \boxed{}$$

$$45 - 4 = \boxed{}$$

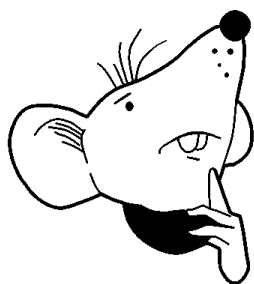
$$\boxed{} - 4 = 51$$

$$65 - \boxed{} = \boxed{}$$

$$\boxed{} - 4 = \boxed{}$$

$$\boxed{} - \boxed{} = \boxed{}$$

$$\boxed{} - \boxed{} = \boxed{}$$

Subtraction patterns

$$\begin{array}{r} 8 \\ 18 \\ 28 \end{array} - 5 = \begin{array}{r} 3 \\ 13 \\ 23 \end{array}$$

Can you see the pattern here?
Try and carry it on by filling in the
missing numbers below.

$$38 - 5 = \square$$

$$48 - 5 = \square$$

$$\square - 5 = 53$$

$$68 - \square = \square$$

$$\square - 5 = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

Making number sentences



If I have the numbers 2, 5 and 7, I can make four different sums, or sentences with them.
Here goes:

$$2 + 5 = 7$$

$$7 - 5 = 2$$

$$5 + 2 = 7$$

$$7 - 2 = 5$$

Make four number sentences with **3, 4 and 7**

$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

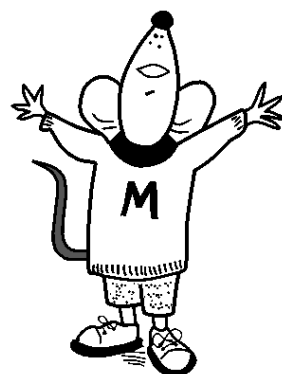
$$\square - \square = \square$$

Remember:
Only use

3

4 and

7



Making number sentences



If I have the numbers 4, 6 and 10, I can make four different sums, or sentences with them.

Here goes:

$$4 + 6 = 10$$

$$10 - 4 = 6$$

$$6 + 4 = 10$$

$$10 - 6 = 4$$

Make four number sentences with **5, 4 and 9**

Sentence 1:

Sentence 2:

Sentence 3:

Sentence 4:

Now make four number sentences with **3, 7 and 10**

Sentence 1:

Sentence 2:

Sentence 3:

Sentence 4:

Now make four number sentences with **4, 8 and 12**

Sentence 1:

Sentence 2:

Sentence 3:

Sentence 4:

Answers

Page 3 1. 32 2. 44 3. 56 4. 61 5. 37 6. 45 7. 60 8. 53 9. 29 10. 48
Page 4 1. 51 2. 66 3. 74 4. 79 5. 90 6. 75 7. 87 8. 92 9. 73 10. 98
Page 5 1. 49 2. 86 3. 57 4. 30 5. 34 6. 37 7. 61 8. 78 9. 95 10. 91
Page 6 1. 64 2. 60 3. 92 4. 37 5. 83 6. 46 7. 79 8. 65 9. 81 10. 98
Page 7 1. 37 and 38 2. 41 and 49 3. 58 and 50 4. 65 and 69 5. 71 and 75 6. 81 and 87
Page 8 1. 57 and 49 2. 66 and 70 3. 72 and 76 4. 82 and 88 5. 93 and 94 6. 69 and 75
Page 9 1. 55 2. 91 3. 63 4. 36 5. 40 6. 48 7. 77 8. 88 9. 61 10. 66
Page 10 1. 64 2. 100 3. 72 4. 45 5. 58 6. 67 7. 86 8. 97 9. 69 10. 75
Page 11 1. 44 2. 47 3. 53 4. 58 5. 62 6. 69 7. 81 8. 87 9. 93 10. 100
Page 12 1. 46 2. 49 3. 54 4. 57 5. 63 6. 70 7. 82 8. 89 9. 95 10. 98
Page 13 $34 + 5 = 39$ $44 + 5 = 49$ $54 + 5 = 59$ $64 + 5 = 69$ $74 + 5 = 79$ $84 + 5 = 89$ $94 + 5 = 99$
Page 14 $35 + 3 = 38$ $45 + 3 = 48$ $55 + 3 = 58$ $65 + 3 = 68$ $75 + 3 = 78$ $85 + 3 = 88$ $95 + 3 = 98$
Page 15 1. 25 2. 27 3. 33 4. 46 5. 17 6. 24 7. 42 8. 31 9. 13 10. 28
Page 16 1. 29 2. 34 3. 48 4. 51 5. 68 6. 72 7. 85 8. 16 9. 8 10. 90
Page 17 1. 27 2. 64 3. 35 4. 8 5. 12 6. 15 7. 39 8. 56 9. 73 10. 69

Answers

Page 18

1. 42 2. 38 3. 70 4. 15 5. 61 6. 24 7. 57 8. 43 9. 59 10. 76

Page 19

1. 16 and 16 2. 20 and 30 3. 37 and 31 4. 46 and 45 5. 59 and 49 6. 60 and 69

Page 20

1. 19 and 12 2. 23 and 27 3. 40 and 29 4. 40 and 48 5. 52 and 52 6. 61 and 68

Page 21

1. 14 2. 19 3. 23 4. 29 5. 4 6. 8 7. 35 8. 32 9. 21 10. 27

Page 22

1. 74 2. 79 3. 73 4. 76 5. 69 6. 61 7. 62 8. 65 9. 59 10. 54

Page 23

1. 57 2. 54 3. 61 4. 59 5. 72 6. 75 7. 67 8. 62 9. 53 10. 49

Page 24

1. 43 2. 46 3. 50 4. 55 5. 44 6. 47 7. 72 8. 78 9. 49 10. 70

Page 25

$35 - 4 = 31$ $45 - 4 = 41$ $55 - 4 = 51$ $65 - 4 = 61$ $75 - 4 = 71$ $85 - 4 = 81$ $95 - 4 = 91$

Page 26

$38 - 5 = 33$ $48 - 5 = 43$ $58 - 5 = 53$ $68 - 5 = 63$ $78 - 5 = 73$ $88 - 5 = 83$ $98 - 5 = 93$

Page 27

$3 + 4 = 7$ $4 + 3 = 7$ $7 - 4 = 3$ $7 - 3 = 4$

Page 28

$5 + 4 = 9$ $4 + 5 = 9$ $9 - 5 = 4$ $9 - 4 = 5$
 $3 + 7 = 10$ $7 + 3 = 10$ $10 - 3 = 7$ $10 - 7 = 3$
 $4 + 8 = 12$ $8 + 4 = 12$ $12 - 4 = 8$ $12 - 8 = 4$