Lesson 1

Mental skills

Can you times two numbers together by using your **fingers**?

You need to show your calculation and how you worked it out.

eg. Ask :- What's 6 times 2?

Times X
Lots of
Multiplied by
times
double
twice

Child writes 6x2=

Then does repeated addition to work it out on their fingers.

(Child show 6 fingers, Each finger is worth 2, They add the twos together)

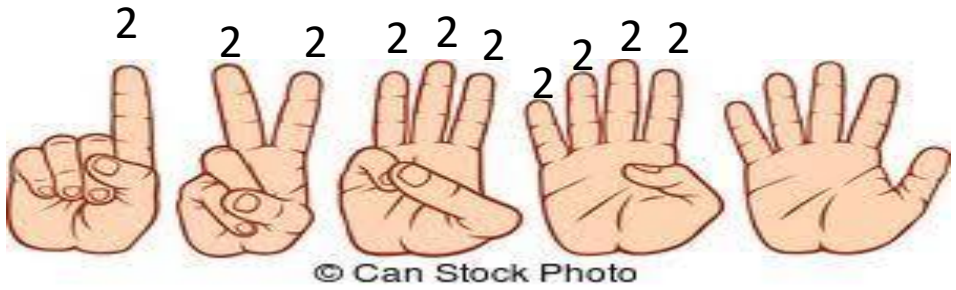
2+2+2+2+2+2= 12

Only use multiples of 2, 5, 10 or 3.

Do lots of examples in your book.

Do lots of 2/lots of 5/lots of 10.

Let your fingers do the counting.



2 4 6 8

Lesson 1

Can you flip numbers in an add calculation?
Can you flip numbers in a takeaway calculation?
Can you use the inverse to make add and takeaway calculations from 3 numbers?

Does it matter which way around you put numbers in an add calculation?

1.Flip these calculations.

What do you notice?

2+5=

7+2=

2+10=

2+9=

3+5=

Eg. 4+3= 7
3+4= 7

2.Which is the quickest way of doing these? Which way are you going to read them? Why?

4+90= 90+4=

3+100= 100+3=

Can you flip numbers in a takeaway calculation?

Flip these takeaway calculations.

Can you? Why not?

4-2= 2-4=

10 -5= 5-10=

Does the biggest or smallest number always have to come first in a takeaway?

Let's use the inverse to make some add and takeaway calculations from 3 numbers.

Remember the inverse means reading a calculation backwards and doing the opposite.

Make an add calculation from these numbers.

(Remember an add calculation always ends with the biggest number because you are counting on)

5 10 2

_____+ _____= _____

Let's read it backwards and do the takeaway.

A takeaway always begins with the biggest number because you need lots to take away.

_____- _____= _____

Eg. 3 2 6

3+2=5

5-2= 3

Check your answers by using your fingers, drawing counters or using a number line.

Let's use the inverse.
Let's do the other add and takeaway for the three numbers.

Make another add calculation from these numbers.
(Remember an add calculation always ends
with the biggest number because you
are counting on)

Eg. 3 2 6

2+3=5
5-3= 32

5 10 2

_____+ _____= _____

Let's read it backwards and do another takeaway.
A takeaway always begins with the biggest
number because you need lots to take away.

Check your answers by using your fingers, drawing counters or using a number line.

_____- _____= _____

Do the 4 calculations for these sets of numbers.
Work them out by doing the inverse.

3 1 4	____+___= ___ _____-___= ___	____+___= ___ _____-___= ___
8 6 2	____+___= ___ ___ - ___= ___	____+___= ___ ____-___= ___
6 4 2	____+___= ___ ____-___= ___	____+___= ___ ____-___= ___
9 6 3	____+___= ___ ____-___= ___	____+___= ___ ____-___= ___

Do the first worksheet.
Mark your own answers by using a calculator or checking on a number line.

Lesson 2

Mental skills

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Lots of
Multiplied by
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(Child show 6 fingers, Each finger is worth 2, They add the twos together)

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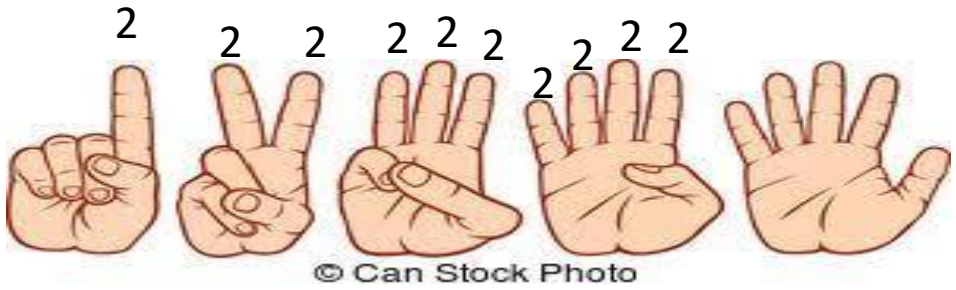

2 4 6 8

Lesson 2

Can you use the inverse or flipping to work out the missing numbers in add or takeaway calculations?

Can I work out missing numbers in an add calculation?
Remember you can flip the numbers in an add calculation and the answers will be the same.

2+3= 5 3+2= 5

1.

4+ ____= 6

What do you add to 4 to make 6?

Put 4 in your head and count on to 6 on your fingers. Do you count in 1's or 10's?

Try these...

14+____= 20

39+ ____= 43

63+_____= 70

20 + _____= 80

2.

__+ 5= 9

Flip the numbers.
5+__= 9

What do you add to 5 to make 9?
Put 5 in your head and count on to 9 on your fingers. Do you count in 1's or 10's?

Try these...

__+ 3= 10

___+ 7= 14

___+ 20= 50

Can I work out missing numbers in a subtract calculation?
Remember the inverse means to read a calculation backwards and do the opposite.

7-2=5 5+2=7

Task 1

_____- 2= 6

Do the inverse.

6+2=8

So the missing number must be 8.

8-2=6 (Check on your fingers)

Try these...

___- 4= 5

____- 7= 4

_____- 5= 10

_____ - 20= 40

Task 2

10- ___= 8

Do the inverse.
8+____= 10

If you put 8 in your head and count on 2 you get to 10, so the missing number is 2.

10-2=8 (Check on your fingers)

Try these...

14-_____= 12

15-___= 9

90- ____= 30

Do the second worksheet.
Mark your own answers by using a calculator or checking on a number line.