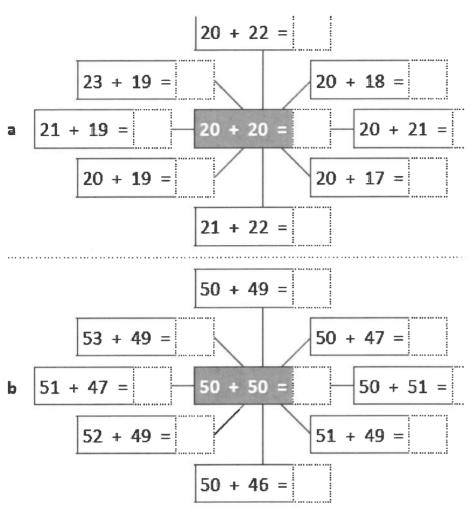


Mathematics: Year 4

Mathematics - Addition - Grade 4



Below are some number lines that only show the jumps. Complete the number line for the problem that matches and then write the complete problem.

Use the jump strategy to add these:

		Cupcake sale:	s	
Day	Red velvet	Lemon drop	Coconut	Chocolate
Saturday	165	82	55	135
Sunday	43	98	65	36

a How many red velvet cupcakes were sold over the weekend?

	+	=	4	-

b How many lemon drop and coconut cupcakes were sold on Saturday?

c How many chocolate cupcakes were sold over the weekend?

When adding large numbers in our heads, it can be easier to split one of the numbers into parts and add each part separately.

Practise separating these numbers into tens and units. The first one has been done for you.

2 Practise adding the tens to these numbers:

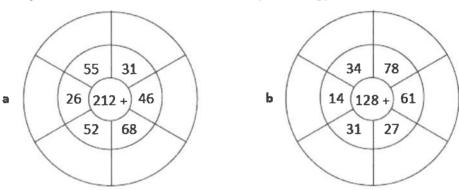
+	20	50	30	70	60
123					
214					

Mathematics - Addition - Grade +

Use the split strategy with these problems. The first one has been done for you.

Mathematics - Addition - Grade 4

Complete these addition wheels with the split strategy:



The split strategy is useful when adding three 2 digit numbers.

Try adding tens, then the units and recording it this way:

Record these place value amounts:

Sometimes we round one number in the problem to make it easier to do in our heads. Then we adjust our answer to compensate:

$$23 + 19 = \boxed{42}$$

$$23 + 20 (-1) \qquad Irounded up by 1,$$

$$43 (-1) = 42 \quad so \, I \, subtract \, 1.$$

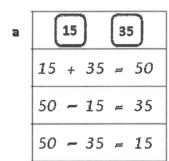
Practise rounding:

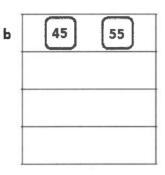
Use the compensation method with these problems. Round the second number up to the closest ten. Compensate by subtracting.

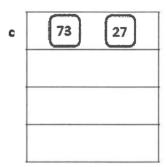


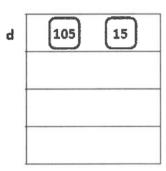
Knowing one addition fact means you also know two related subtraction facts. Because 7 + 3 = 10 you know that 10 - 7 = 3 and 10 - 3 = 7

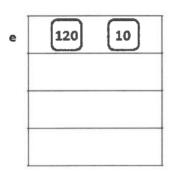
Make a group of facts for each pair of numbers. The first one has been done for you.

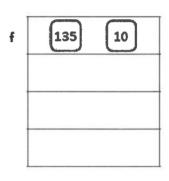












Complete each number trail:

b
$$200 -50$$
 $+25$ -30 $+55$

d
$$\boxed{76}$$
 $+24$ $\boxed{}$ $+35$ $\boxed{}$ $+15$ $\boxed{}$ $\boxed{}$

Use counting on to complete these:

Complete this cross number puzzle. Using complements to 100 will help.

1			2			3		
		4			5			6
	7	1000		8			9	
10			i1			12		

Across

Down

8 100-49=

9 100-61=

10 100 - 52 =

11 100-66=

12 100 - 75 =

Use your knowledge of doubles and near doubles to complete these subtraction tables. The first one in each has been done for you.

Ь

d

a	See	Think
	19 - 9 =	(18 – 9) + 1
	201 – 100 =	
	141 - 70 =	
	71 – 35 =	

See	Think
15 – 8 =	(16 – 8) – 1
31 - 16 =	
99 – 50 =	
87 – 44 =	

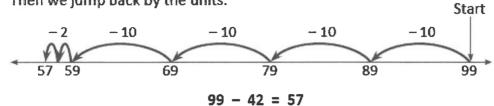
	See	Think
	26 – 12 =	[24 - 12) + 2
	52 – 25 =	
	68 – 33 =	
•	104 - 51 =	

See	Think
24 – 13 =	(26 – 13) – 2
48 – 25 =	
70 – 36 =	
78 – 40 =	

Mathematics - Subtraction - Grade +

When we subtract, we can use the jump strategy to help us. Look at 99 - 42:

- 1 First we jump back by the tens.
- 2 Then we jump back by the units.



Solve these using the jump strategy:

4

←

c 335 - 54 =

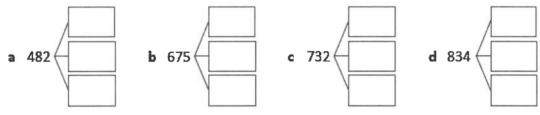
•

d 245 - 45 =

4

When subtracting large numbers in our heads it can be easier to split the number to be subtracted into parts and work with each part separately.

Practise splitting numbers into hundreds, tens and ones:



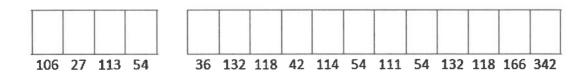
Complete these subtraction trails:

a
$$768 -200$$
 -20 -300 -10 -50 -50 -50

Answer these subtraction problems to solve the riddle below:

What swirls, loops, and circles on your fingertips, yet never moves?

d
$$86 - 59 = 0$$
 e $180 - 48 = 1$ **f** $150 - 32 = N$

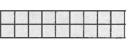


Mathematics - Multiplication - Grade +

Factors are numbers that you multiply together to give a multiple.



$$3 \times 6 = 18$$

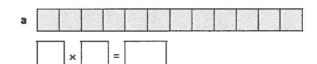


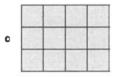
$$2 \times 9 = 18$$

These arrays show some of the factors of 18: 3, 6, 2 and 9.

Can you think of any other factors of 18?

Complete the number sentence for each set of arrays and then list the factors.



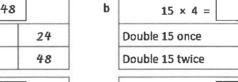




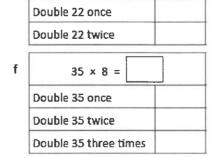
Use patterns to solve these:

Keep doubling to get the × 4 and × 8 facts. Here are some tables to help you. The first one has been done for you.

a	12 × 4 =	48	
	Double 12 once		24
	Double 12 twice		48



С	18 × 4 =	
	Double 18 once	
	Double 18 twice	

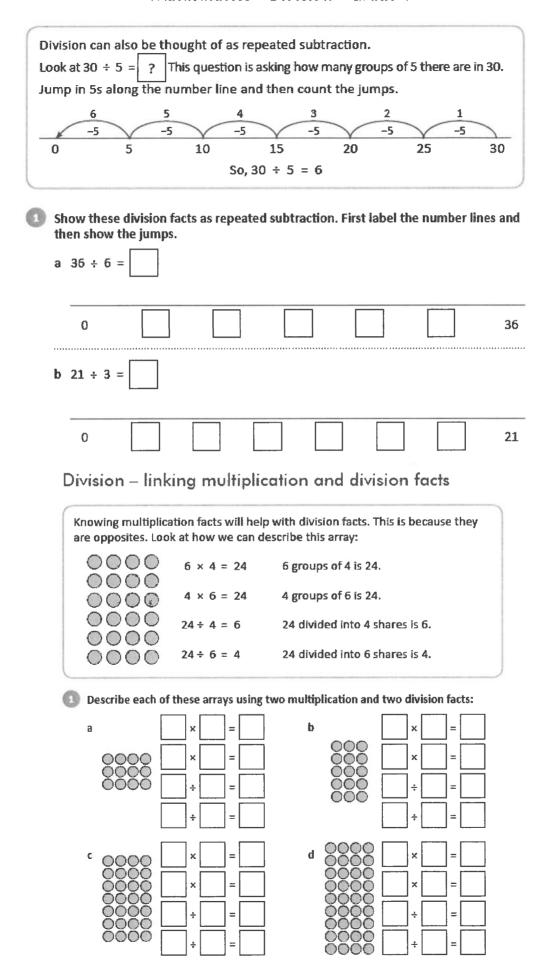


 $22 \times 4 =$

e	16 × 8 =	
	Double 16 once	
	Double 16 twice	
	Double 16 three times	

Mathematics - Division - Grade +

Division can mean sharing or grouping.
There are 12 lollies shared between 4 kids. How many are in each share?
222222222
12 ÷ 4 = 3
There are 16 apples and 4 go into each basket. How many baskets do 1 need?
16 ÷ 4 = 4
Solve these sharing and grouping questions:
a There are 9 cupcakes and 3 kids are sharing. How many are in each share?
÷
b 12 lollies are shared between a group of kids so they each get 2. How many kids are sharing?
are sharing.
÷ = =
LHEUR
a Divide 16 Iollies between 4 girls. How many does each girl get?
÷=
sharing / grouping
b From a packet of 24 pencils, each person will get 6. How many people are sharing the pencils?
÷
sharing / grouping
c 48 eggs are laid by 6 hens. If they all laid the same amount, how many did each hen lay?
÷ = =
sharing / grouping



Sometime	0000	ect. From 13, we can make 2 fair shares of 6 with 1 left over. We call the left over the remainder. 13 ÷ 6 = 2 remainder 1
1 In each	array, ring the fair sh	nares to see the remainder:
а	0000 0000 0000 0000	
b	00000) O
C	00000 00000 00000 0000	