Subtraction mental strategies – addition and subtraction

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



2 Complete each number trail:





Addition and Subtraction

Subtraction mental strategies – subtraction strategy review

Look for patterns	6 - 2 = 4 so $60 - 20 = 40$ and $600 - 200 = 400$
	72 - 9 = 63 so $62 - 9 = 53$ and $52 - 9 = 43$
Count on:	When numbers are close together, you can count on to find the difference.
	20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
Complements:	35 + 65 = 100 so $100 - 35 = 65$
	12 + 8 = 20 so 20 - 8 = 12
Near doubles:	See: 15 – 7 Think: (14 – 7) + 1

This hundred grid makes it easier to see subtraction patterns. Use it to complete the sets.

1	2	3	4	5	6	7	8	9	10	Set 1	Set 2
11	12	13	14	15	16	17	18	19	20	17 – 9 =	21 - 6 =
21	22	23	24	25	26	27	28	29	30		
31	32	33	34	35	36	37	38	39	40		31 - 0 =
41	42	43	44	45	46	47	48	49	50	37 - 9 =	41 - 6 =
51	52	53	54	55	56	57	58	59	60		
61	62	63	64	65	66	67	68	69	70	47 – 9 =	51 - 6 =
71	72	73	74	75	76	77	78	79	80	57 - 9 =	61 - 6 =
81	82	83	84	85	86	87	88	89	90		
91	92	93	94	95	96	97	98	99	100	67 - 9 =	71 - 6 =

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Extend these subtractions according to the patterns:

а	9 - 6 =	90 - 60 =	900 - 600 =
b	14 - 8 =	140 - 80 =	1 400 - 800 =
С	24 - 14 =		
d	69 - 32 =		





Subtraction mental strategies – subtraction strategy review





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Subtraction mental strategies – subtraction strategy review

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

а	See	Think	b	See	Think
	19 – 9 =	(18 – 9) + 1		15 – 8 =	(16 – 8) – 1
	201-100=			31 – 16 =	
	141 – 70 =			99 – 50 =	
	71 – 35 =			87 – 44 =	

С	See	Think	d	See	Think
	26 – 12 =	(24 – 12) + 2		24 – 13 =	(26 – 13) – 2
	52 – 25 =			48 – 25 =	
	68 - 33 =			70 - 36 =	
	104 - 51 =			78 – 40 =	

Complete this near double web, which is based on the subtraction double in the centre. Start in the centre and work clockwise:



Subtraction mental strategies – jump strategy

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. Start - 10 - 10 - 2 - 10 - 10 69 89 99 79 59 99 - 42 = 57Solve these using the jump strategy: **a** 125 - 42 = **b** 168 - 36 =

c 335 - 54 =

Subtraction mental strategies – jump strategy

2 It's stocktake time at Candilicious sweet shop. Use the jump strategy to work out how many of each type of sweet has been sold.

Sweets	Started with	Amount left	Sold
Cinnamon drops	254	45	
Caramel melts	186	58	
Milk bottles	145	65	
Chocolate buds	165	34	

a Cinnamon drops

	< →
b	Caramel melts =
с	Milk bottles
d	Chocolate buds - =
	<

SERIES

ΤΟΡΙΟ

Subtraction mental strategies – split strategy

ТОРІС

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Addition and Subtraction

Subtraction mental strategies – split strategy

479 - 45 =	b 834 - 21 =
So, 479 – 45 =	So, 834 – 21 =
637 - 312 =	d 567 – 232 =
So. 637 - 312 =	So. 567 - 232 =

5 Solve these pyramid puzzles using any strategy you like. The two bricks add to support the number on top. For example in puzzle a, 22 + 23 = 45.

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Subtraction mental strategies – compensation strategy

subtracting or adding the difference. The first one has been done for you.

Solve these subtraction problems using compensation. Show your working.

Addition and Subtraction

Subtraction mental strategies – compensation strategy

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Solve these subtraction problems using compensation. Show your working.

Answer these subtraction problems to solve the riddle below:

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

a 6	5 –	29 =	F		b 14	5 – 3	32 =	U		(c 17	5 –	61 =	Е	
d 8	6 –	59 =	0		e 18	0 - 4	48 =	I		·	f 15	0 -	32 =	Ν	
g 9	6 –	42 =	R		h 7	5 – 3	33 =	G		i	i 15	5 –	49 =	Y	
j 16	6 –	55 =	Ρ		k 18	5 – 3	19 =	Т			I 37	0 -	28 =	S	
106	27	113	54	 36	132	118	42	114	54	111	54	132	118	166	342

Subtract to zero

Getting

ready

This is a game for two players. You will need a copy of this page and 25 counters between you.

apply

Player 1 covers a number on the grid with a counter and subtracts this number from 100. Player 2 then covers a number on the grid with a counter and subtracts this number from Player 1's answer. Play continues until a player is able to pick one of the remaining uncovered numbers to equal zero. If play continues without anyone reaching zero, the lowest difference wins.

Sample game:

Player 1 covers 20 with a counter and states the subtraction fact: 100 - 20 = 80

Player 2 covers 30 with a counter and states the next subtraction fact: 80 - 30 = 50

Player 1 then covers 50 and reaches zero first, so wins the round.

25	10	15	20	10
10	50	30	10	25
40	5	40	10	10
10	35	10	15	10
50	10	5	10	45

Subtraction grid puzzles

solve

Complete these subtraction cross number puzzles:

а	125	_	75	=	
	_		_		_
	53	_		=	14
	=		=		=
		_	36	=	

b	350	_	228	=	
	_				-
	165	_		=	54
	=		=		=
		_	117	=	68

