

Emoji Addition and Subtraction Facts up to 100 Mosaic

Addition facts up to 100

Solve the calculations to reveal the hidden picture.

Each answer has a special colour:

1 to 60 = yellow

61 to 80 = black

81 to 90 = white

91 to 100 = pink

		$23 + 20$	$15 + 5$	$28 + 10$	$30 + 12$	$30 + 30$		
	$25 + 4$	$33 + 7$	$19 + 30$	$32 + 9$	$10 + 33$	$30 + 14$	$22 + 10$	
$52 + 8$	$36 + 3$	$43 + 20$	$46 + 4$	$34 + 10$	$83 + 5$	$10 + 74$	$83 + 7$	$12 + 20$
$35 + 10$	$38 + 30$	$24 + 6$	$54 + 10$	$47 + 3$	$44 + 40$	$40 + 32$	$23 + 60$	$31 + 20$
$38 + 10$	$22 + 20$	$38 + 20$	$20 + 12$	$30 + 20$	$85 + 5$	$48 + 40$	$32 + 50$	$22 + 30$
$32 + 20$	$35 + 10$	$34 + 20$	$12 + 6$	$25 + 5$	$33 + 7$	$57 + 2$	$31 + 6$	$38 + 20$
$40 + 14$	$59 + 10$	$40 + 33$	$40 + 60$	$51 + 40$	$50 + 50$	$30 + 43$	$30 + 35$	$33 + 10$
$12 + 4$	$14 + 10$	$41 + 30$	$80 + 20$	$90 + 4$	$70 + 30$	$30 + 34$	$26 + 4$	$24 + 30$
	$12 + 20$	$42 + 10$	$25 + 75$	$20 + 80$	$45 + 50$	$45 + 10$	$25 + 10$	
		$43 + 15$	$52 + 3$	$45 + 45$	$27 + 13$	$26 + 20$		

Challenge: Jayne thinks $20 + 20 + 20 = 80$.

Is she correct? Explain your reasoning.

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Answers

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		23 + 20	15 + 5	28 + 10	30 + 12	30 + 30		
	25 + 4	33 + 7	19 + 30	32 + 9	10 + 33	30 + 14	22 + 10	
52 + 8	36 + 3	43 + 20	46 + 4	34 + 10	83 + 5	10 + 74	83 + 7	12 + 20
35 + 10	38 + 30	24 + 6	54 + 10	47 + 3	44 + 40	40 + 32	23 + 60	31 + 20
38 + 10	22 + 20	38 + 20	20 + 12	30 + 20	85 + 5	48 + 40	32 + 50	22 + 30
32 + 20	35 + 10	34 + 20	12 + 6	25 + 5	33 + 7	57 + 2	31 + 6	38 + 20
40 + 14	59 + 10	40 + 33	40 + 60	51 + 40	50 + 50	30 + 43	30 + 35	33 + 10
12 + 4	14 + 10	41 + 30	80 + 20	90 + 4	70 + 30	30 + 34	26 + 4	24 + 30
	12 + 20	42 + 10	25 + 75	20 + 80	45 + 50	45 + 10	25 + 10	
		43 + 15	52 + 3	45 + 45	27 + 13	26 + 20		

Challenge: Jayne thinks $20 + 20 + 20 = 80$. Is she correct? Explain your reasoning. **She's incorrect – $20 + 20 + 20 = 60$, because we know $2 + 2 + 2 = 6$.**

Emoji Addition and Subtraction Facts up to 100 Mosaic

Subtraction facts up to 100

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1 to 20 = pink

41 to 100 = yellow

21 to 40 = black

		$54 - 10$	$60 - 10$	$70 - 20$	$85 - 10$	$70 - 20$		
	$80 - 20$	$64 - 5$	$77 - 20$	$74 - 10$	$94 - 6$	$60 - 15$	$53 - 6$	
$62 - 6$	$80 - 30$	$43 - 10$	$90 - 30$	$77 - 9$	$76 - 8$	$28 - 6$	$60 - 10$	$69 - 10$
$88 - 40$	$51 - 20$	$95 - 30$	$52 - 30$	$54 - 9$	$45 - 7$	$59 - 10$	$39 - 5$	$75 - 20$
$84 - 7$	$94 - 8$	$67 - 10$	$54 - 6$	$74 - 5$	$77 - 20$	$64 - 6$	$75 - 20$	$63 - 5$
$80 - 10$	$78 - 6$	$80 - 30$	$80 - 20$	$93 - 6$	$67 - 10$	$80 - 20$	$49 - 8$	$80 - 30$
$90 - 30$	$63 - 30$	$60 - 6$	$70 - 15$	$74 - 4$	$98 - 1$	$80 - 20$	$36 - 4$	$80 - 10$
$86 - 6$	$80 - 10$	$46 - 9$	$80 - 30$	$70 - 20$	$64 - 7$	$61 - 30$	$36 - 20$	$70 - 20$
	$80 - 30$	$87 - 8$	$44 - 20$	$37 - 7$	$56 - 20$	$22 - 8$	$20 - 10$	$46 - 30$
		$98 - 20$	$75 - 5$	$90 - 30$	$90 - 60$	$80 - 10$	$60 - 50$	$16 - 6$

Challenge: If we know $7 + 3 = 10$, what other related addition and subtraction facts do we know?

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Answers

Subtraction facts up to 100

1 to 20 = pink

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		54 - 10	60 - 10	70 - 20	85 - 10	70 - 20		
	80 - 20	64 - 5	77 - 20	74 - 10	94 - 6	60 - 15	53 - 6	
62 - 6	80 - 30	43 - 10	90 - 30	77 - 9	76 - 8	28 - 6	60 - 10	69 - 10
88 - 40	51 - 20	95 - 30	52 - 30	54 - 9	45 - 7	59 - 10	39 - 5	75 - 20
84 - 7	94 - 8	67 - 10	54 - 6	74 - 5	77 - 20	64 - 6	75 - 20	63 - 5
80 - 10	78 - 6	80 - 30	80 - 20	93 - 6	67 - 10	80 - 20	49 - 8	80 - 30
90 - 30	63 - 30	60 - 6	70 - 15	74 - 4	98 - 1	80 - 20	36 - 4	80 - 10
86 - 6	80 - 10	46 - 9	80 - 30	70 - 20	64 - 7	61 - 30	36 - 20	70 - 20
	80 - 30	87 - 8	44 - 20	37 - 7	56 - 20	22 - 8	20 - 10	46 - 30
		98 - 20	75 - 5	90 - 30	90 - 60	80 - 10	60 - 50	16 - 6

Challenge: If we know $7 + 3 = 10$, what other related addition and subtraction facts do we know? $7 + 3 = 10$, $3 + 7 = 10$, $10 - 3 = 7$, $10 - 7 = 3$, $70 + 30 = 100$, $30 + 70 = 100$, $100 - 30 = 70$, $100 - 70 = 30$

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Addition and subtraction facts up to 100

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		$45 + 10$	$65 - 20$	$30 + 20$	$26 + 20$	$55 - 40$		
	$75 - 50$	$10 + 40$	$32 + 6$	$80 - 60$	$33 + 5$	$40 - 6$	$41 + 6$	
$57 - 5$	$25 + 60$	$41 + 40$	$98 - 10$	$33 + 10$	$35 + 50$	$30 + 56$	$95 - 10$	$23 + 20$
$35 + 20$	$40 + 50$	$99 - 7$	$77 + 6$	$40 + 10$	$20 + 70$	$65 + 30$	$75 + 7$	$43 + 5$
$54 - 6$	$94 - 5$	$74 + 9$	$50 + 40$	$64 - 10$	$99 - 9$	$70 + 20$	$60 + 30$	$65 - 7$
$56 + 5$	$34 + 30$	$44 - 6$	$37 - 10$	$56 - 6$	$36 + 20$	$15 + 7$	$50 + 25$	$90 - 20$
$50 + 20$	$98 - 20$	$80 - 40$	$50 - 20$	$55 - 7$	$70 - 30$	$60 - 10$	$80 - 10$	$30 + 40$
$10 + 30$	$70 - 40$	$20 + 20$	$40 + 60$	$97 - 4$	$98 - 6$	$70 - 50$	$30 + 10$	$45 - 7$
	$30 + 20$	$30 + 10$	$70 - 30$	$12 + 4$	$90 - 70$	$30 + 20$	$30 + 10$	
		$30 + 20$	$50 - 30$	$20 + 10$	$50 - 10$	$40 + 10$		

Challenge: True or false? 79 has 5 more tens than 44.

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Answers

Addition and subtraction facts up to 100

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		45 + 10	65 - 20	30 + 20	26 + 20	55 - 40		
	75 - 50	10 + 40	32 + 6	80 - 60	33 + 5	40 - 6	41 + 6	
57 - 5	25 + 60	41 + 40	98 - 10	33 + 10	35 + 50	30 + 56	95 - 10	23 + 20
35 + 20	40 + 50	99 - 7	77 + 6	40 + 10	20 + 70	65 + 30	75 + 7	43 + 5
54 - 6	94 - 5	74 + 9	50 + 40	64 - 10	99 - 9	70 + 20	60 + 30	65 - 7
56 + 5	34 + 30	44 - 6	37 - 10	56 - 6	36 + 20	15 + 7	50 + 25	90 - 20
50 + 20	98 - 20	80 - 40	50 - 20	55 - 7	70 - 30	60 - 10	80 - 10	30 + 40
10 + 30	70 - 40	20 + 20	40 + 60	97 - 4	98 - 6	70 - 50	30 + 10	45 - 7
	30 + 20	30 + 10	70 - 30	12 + 4	90 - 70	30 + 20	30 + 10	
		30 + 20	50 - 30	20 + 10	50 - 10	40 + 10		

Challenge: True or false? 79 has 5 more tens than 44.

False - 79 has 3 more tens than 44.