

Pirate Maths Mental Calculations Mosaic

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

white = 200 - 299 **hair colour of your choice =** 300 - 399 **blue =** 400 - 499 **black =** 500 - 599 **red =** 600 - 699 **skin colour of your choice =** 700 - 800

$850 - 600$	$297 - 50$	$295 + 300$	$999 - 400$	$199 + 400$	$654 - 60$	$654 - 100$	$451 - 200$	$395 - 100$
$468 - 200$	$503 + 10$	$156 + 400$	$467 + 60$	$567 - 60$	$617 - 20$	$600 - 7$	$109 + 400$	$393 - 100$
$500 + 70$	$227 + 300$	$452 + 70$	$85 + 500$	$735 - 200$	$600 - 1$	$600 - 40$	$250 + 300$	$398 + 200$
$75 + 200$	$817 - 600$	$850 - 100$	$797 - 50$	$620 - 100$	$451 + 100$	$395 + 200$	$970 - 700$	$199 + 10$
$652 - 400$	$750 + 20$	$817 - 90$	$395 + 100$	$897 - 150$	$495 + 8$	$265 + 530$	$895 - 100$	$253 + 30$
$804 - 600$	$499 - 100$	$735 - 410$	$400 - 80$	$278 + 30$	$349 + 50$	$472 - 150$	$365 + 20$	$850 - 600$
$27 + 200$	$340 + 6$	$970 - 200$	$852 - 200$	$743 - 60$	$612 + 80$	$850 - 150$	$138 + 200$	$310 - 50$
$265 + 30$	$495 - 200$	$735 - 400$	$400 - 8$	$278 + 30$	$349 + 40$	$856 - 500$	$208 + 70$	$227 + 5$
$265 + 3$	$398 + 100$	$503 - 10$	$295 + 150$	$999 - 500$	$199 + 300$	$654 - 200$	$109 + 300$	$970 - 700$
$265 + 200$	$419 + 60$	$472 - 50$	$156 + 250$	$467 + 10$	$567 - 150$	$617 - 200$	$150 + 300$	$398 + 100$

Challenge: Use the inverse operation to write the related addition facts. Explain how you calculated the inverse.

$$845 - 350 = 495$$

$$624 - 250 = 374$$

$$287 - 180 = 107$$

$$548 - 260 = 288$$

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Answers

white = 200 - 299 **hair colour of your choice =** 300 - 399 **blue =** 400 - 499 **black =** 500 - 599 **red =** 600 - 699 **skin colour of your choice =** 700 - 800

850 - 600	297 - 50	295 + 300	999 - 400	199 + 400	654 - 60	654 - 100	451 - 200	395 - 100
468 - 200	503 + 10	156 + 400	467 + 60	567 - 60	617 - 20	600 - 7	109 + 400	393 - 100
500 + 70	227 + 300	452 + 70	85 + 500	735 - 200	600 - 1	600 - 40	250 + 300	398 + 200
75 + 200	817 - 600	850 - 100	797 - 50	620 - 100	451 + 100	395 + 200	970 - 700	199 + 10
652 - 400	750 + 20	817 - 90	395 + 100	897 - 150	495 + 8	265 + 530	895 - 100	253 + 30
804 - 600	499 - 100	735 - 410	400 - 80	278 + 30	349 + 50	472 - 150	365 + 20	850 - 600
27 + 200	340 + 6	970 - 200	852 - 200	743 - 60	612 + 80	850 - 150	138 + 200	310 - 50
265 + 30	495 - 200	735 - 400	400 - 8	278 + 30	349 + 40	856 - 500	208 + 70	227 + 5
265 + 3	398 + 100	503 - 10	295 + 150	999 - 500	199 + 300	654 - 200	109 + 300	970 - 700
265 + 200	419 + 60	472 - 50	156 + 250	467 + 10	567 - 150	617 - 200	150 + 300	398 + 100

Challenge

$$845 - 350 = 495$$

$$495 + 350 = 845 \text{ or } 350 + 495 = 845$$

$$287 - 180 = 107$$

$$107 + 180 = 287 \text{ or } 180 + 107 = 287$$

$$624 - 250 = 374$$

$$374 + 250 = 624 \text{ or } 250 + 374 = 624$$

$$548 - 260 = 288$$

$$288 + 260 = 548 \text{ or } 260 + 288 = 548$$

Choice of skin tone will vary.

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Solve the calculations to reveal the hidden picture. Each answer has a special colour.

yellow =
300 - 399

blue =
500 - 599

grey =
600 - 699

brown =
700 - 799

$503 + 10$	$472 + 50$	$951 - 300$	$351 + 300$	$893 - 200$	$600 - 40$	$500 + 70$	$999 - 400$	$452 + 70$
$467 + 60$	$85 + 500$	$256 + 400$	$227 + 300$	$743 - 60$	$599 - 50$	$156 + 400$	$617 - 20$	$156 + 400$
$523 + 30$	$109 + 400$	$56 + 600$	$523 + 30$	$240 + 400$	$467 + 60$	$485 + 60$	$620 - 100$	$227 + 300$
$398 + 200$	$199 + 400$	$452 + 70$	$295 + 300$	$953 - 300$	$999 - 400$	$85 + 500$	$617 - 20$	$600 - 7$
$472 + 50$	$398 + 200$	$320 + 200$	$620 - 40$	$600 + 8$	$156 + 400$	$500 + 70$	$915 - 400$	$499 + 20$
$365 + 20$	$400 - 6$	$419 - 60$	$951 - 270$	$351 + 320$	$893 - 250$	$286 + 30$	$118 + 200$	$270 + 80$
$925 - 600$	$301 + 90$	$485 + 300$	$962 - 200$	$643 + 60$	$458 + 300$	$555 + 200$	$278 + 30$	$340 + 6$
$227 + 80$	$503 - 200$	$365 + 400$	$913 - 200$	$643 + 120$	$458 + 320$	$555 + 230$	$905 - 600$	$150 + 200$
$385 - 60$	$590 - 200$	$455 + 250$	$902 - 150$	$643 + 90$	$458 + 250$	$508 + 250$	$290 + 20$	$735 - 400$
$349 + 40$	$400 - 8$	$250 + 450$	$873 - 120$	$438 + 280$	$569 + 220$	$334 + 410$	$856 - 500$	$328 + 7$

Challenge: Which of these calculations is incorrect? Explain your reasoning.

$537 + 50 = 587$

$342 + 70 = 422$

$762 - 130 = 632$

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Answers

yellow =
300 - 399

blue =
500 - 599

grey =
600 - 699

brown =
700 - 799

503 + 10	472 + 50	951 - 300	351 + 300	893 - 200	600 - 40	500 + 70	999 - 400	452 + 70
467 + 60	85 + 500	256 + 400	227 + 300	743 - 60	599 - 50	156 + 400	617 - 20	156 + 400
523 + 30	109 + 400	56 + 600	523 + 30	240 + 400	467 + 60	485 + 60	620 - 100	227 + 300
398 + 200	199 + 400	452 + 70	295 + 300	953 - 300	999 - 400	85 + 500	617 - 20	600 - 7
472 + 50	398 + 200	320 + 200	620 - 40	600 + 8	156 + 400	500 + 70	915 - 400	499 + 20
365 + 20	400 - 6	419 - 60	951 - 270	351 + 320	893 - 250	286 + 30	118 + 200	270 + 80
925 - 600	301 + 90	485 + 300	962 - 200	643 + 60	458 + 300	555 + 200	278 + 30	340 + 6
227 + 80	503 - 200	365 + 400	913 - 200	643 + 120	458 + 320	555 + 230	905 - 600	150 + 200
385 - 60	590 - 200	455 + 250	902 - 150	643 + 90	458 + 250	508 + 250	290 + 20	735 - 400
349 + 40	400 - 8	250 + 450	873 - 120	438 + 280	569 + 220	334 + 410	856 - 500	328 + 7

Challenge: Which of these calculations is incorrect? Explain your reasoning.

$537 + 50 = 587$

$342 + 70 = 422$

$762 - 130 = 632$

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Solve the calculations to reveal the hidden picture. Each answer has a special colour.

blue = $100 - 249$ **brown** = $250 - 549$ **red** = $550 - 699$ **green** = $700 - 849$ **yellow** = $850 - 999$ **black** = 1000

$252 - 7$	$601 - 400$	$336 - 200$	$199 + 10$	$702 - 18$	$121 + 70$	$252 - 79$	$617 - 450$	$115 + 80$
$156 - 50$	$27 + 200$	$111 - 6$	$56 + 600$	$550 + 450$	$596 - 30$	$156 - 40$	$27 + 210$	$118 + 130$
$98 + 5$	$503 - 300$	$285 - 40$	$718 - 30$	$438 + 200$	$990 - 100$	$98 + 50$	$503 - 350$	$187 + 50$
$293 - 50$	$150 + 60$	$456 + 200$	$617 - 20$	$853 - 200$	$834 - 200$	$186 + 800$	$150 + 90$	$962 - 200$
$115 + 90$	$246 - 20$	$834 - 200$	$107 + 550$	$592 + 60$	$666 - 500$	$973 - 200$	$555 + 200$	$184 + 30$
$118 + 100$	$617 - 2$	$559 + 60$	$546 + 130$	$561 + 100$	$68 + 40$	$60 + 90$	$156 + 600$	$370 + 80$
$187 + 20$	$107 + 500$	$520 + 100$	$432 + 150$	$942 - 300$	$263 - 20$	$263 - 120$	$495 + 20$	$336 - 150$
$702 - 8$	$546 + 30$	$953 - 300$	$184 + 20$	$85 + 800$	$297 - 50$	$227 + 300$	$95 + 150$	$211 - 60$
$596 - 20$	$432 + 200$	$804 - 200$	$95 + 100$	$907 + 5$	$905 - 600$	$864 - 100$	$684 + 20$	$285 - 50$
$542 + 9$	$675 - 100$	$84 + 20$	$826 + 40$	$38 + 900$	$907 + 50$	$154 + 90$	$817 - 650$	$643 + 60$

Challenge: Are these calculations true or false? Explain your reasoning.

$$495 + 48 = 563 - 20$$

$$934 - 120 < 754 + 60$$

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Answers

blue =
100 - 249

brown =
250 - 549

red =
550 - 699

green =
700 - 849

yellow =
850 - 999

black =
1000

252 - 7	601 - 400	336 - 200	199 + 10	702 - 18	121 + 70	252 - 79	617 - 450	115 + 80
156 - 50	27 + 200	111 - 6	56 + 600	550 + 450	596 - 30	156 - 40	27 + 210	118 + 130
98 + 5	503 - 300	285 - 40	718 - 30	438 + 200	990 - 100	98 + 50	503 - 350	187 + 50
293 - 50	150 + 60	456 + 200	617 - 20	853 - 200	834 - 200	186 + 800	150 + 90	962 - 200
115 + 90	246 - 20	834 - 200	107 + 550	592 + 60	666 - 500	973 - 200	555 + 200	184 + 30
118 + 100	617 - 2	559 + 60	546 + 130	561 + 100	68 + 40	60 + 90	156 + 600	370 + 80
187 + 20	107 + 500	520 + 100	432 + 150	942 - 300	263 - 20	263 - 120	495 + 20	336 - 150
702 - 8	546 + 30	953 - 300	184 + 20	85 + 800	297 - 50	227 + 300	95 + 150	211 - 60
596 - 20	432 + 200	804 - 200	95 + 100	907 + 5	905 - 600	864 - 100	684 + 20	285 - 50
542 + 9	675 - 100	84 + 20	826 + 40	38 + 900	907 + 50	154 + 90	817 - 650	643 + 60

Challenge: Are these calculations true or false? Explain your reasoning.

$$495 + 48 = 563 - 20$$

This is true because both calculations equal 543.

$$934 - 120 < 754 + 60$$

This is false because both calculations equal 814.