

Student Activity Book - Page 741

2. One year the Shark Team swam 718 laps in a week. The next year they swam 822 laps. Estimate how many more laps they swam the second year. 3. Two teams competed in the next swimathon. The Tiger Shark team swam 474 laps and the Nurse Shark Team swam 51 fewer laps. About how many laps did the Nurse Shark Team swim? 4. By the third day of the swimathon, the Hammerhead Shark
year they swam 822 laps. Estimate how many more laps they swam the second year. 3. Two teams competed in the next swimathon. The Tiger Shark team swam 474 laps and the Nurse Shark Team swam 51 fewer laps. About how many laps did the Nurse Shark Team swim? 4. By the third day of the swimathon, the Hammerhead Shark
team swam 474 laps and the Nurse Shark Team swam 51 fewer laps. About how many laps did the Nurse Shark Team swim? 4. By the third day of the swimathon, the Hammerhead Shark
Team had completed 881 laps. Their goal was to swim 1200 laps by the end of the week. Estimate how many more laps they had left to swim.

Student Activity Book - Page 742

Student Activity Book

Swimathon (SAB pp. 741–742) Questions 1–4

Possible responses are shown for each estimate of difference.

1.* Tuesday: 750 - 198 = 552

Estimate: A friendly number for 198 is 200. I subtracted 750 - 200 = 550.

Wednesday: 552 - 209 = 343

Estimate: I used base-ten pieces. First, I made 550 with 5 flats and 5 skinnies. Nine is close to 1 skinny, so I took away a skinny and 4 skinnies were left. Then I took 2 flats from the 5 flats and I had 3 left. My estimate is 340.

Thursday: 343 - 139 = 204

Estimate: I found the friendly numbers for 343 and 139: 340 and 140. I subtracted 340 - 140 = 200.

Friday: They only had 204 laps to go but they swam 265 laps on, so I said they reached their goal.

Yes, they reached their goal.

Possible responses are shown for each question.

- **2.** Estimate: 100 laps. I found the closest hundred for 822 and 718: 800 700 = 100 laps.
- **3.** Estimate: 420 laps. I found the closest ten for 474 and 51: 470 50 = 420 laps.
- **4.** Estimate: 320 laps. I counted up from 880 to 1200. From 880 to 900 is 20 and from 900 to 1200 is 300. My estimate is 320 laps.

^{*}Answers and/or discussion are included in the lesson.

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Mental Math Subtraction Strategies (SAB pp. 743–744) Questions 1–5

Possible responses are given for each problem.

- 1.* 545; Strategy: I started at 553 and counted back 8. My answer is 545.
 - Estimate: I used friendly numbers. The closest ten to 8 is 10. I subtracted 10 from 553 and my estimate was 543. That's close to my answer 545.
- 2.* 327; Strategy: I found the friendly number for 49 is 50. I started at 376 and hopped back 5 tens on the number line. I landed at 326, but I had to add 1 because I took away 1 too many. My answer is 327.

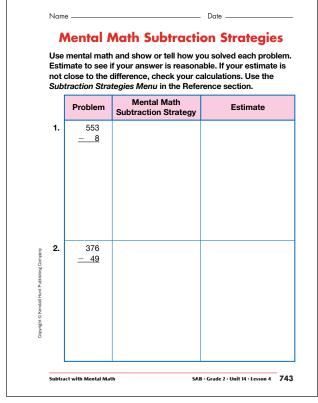
Estimate: I found the friendly numbers for 376 and 49: 380 and 50. I subtracted 380 - 50 = 330. My answer is 327 and that's close to 330.

3.* 4; Strategy: I started at 398 and counted up to 402. My answer is 4.

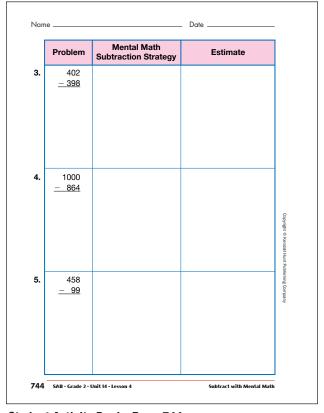
Estimate: The friendly number for 398 is 400. I subtracted 402 - 400 = 2. My estimate is close to the actual answer 4.

- 4.* 136; Strategy: I took 1 away from both numbers and subtracted 999 863 = 136.
 Estimate: I subtracted 10 8 = 2 in the left columns. Since it's in the hundreds place, it's really 200. If I count back 6 more tens, my estimate is about 140. That's close to 136.
- **5.*** 359; Strategy: I started at 458 and subtracted 100 because 99 is close to 100. I was at 358 but I had to add one more because I took away 100 instead of 99. My answer is 359

Estimate: I subtracted 458 - 100 = 358. It's almost the same as finding the actual answer. I know that 358 is close to 359, so my answer makes sense.

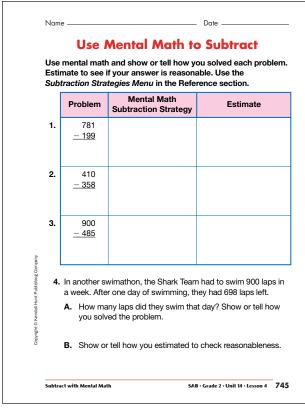


Student Activity Book - Page 743

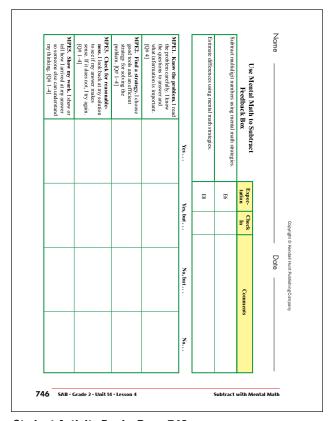


Student Activity Book - Page 744

^{*}Answers and/or discussion are included in the lesson.



Student Activity Book - Page 745



Student Activity Book - Page 746

Use Mental Math to Subtract (SAB p. 745) Questions 1–4

Responses will vary. Possible responses are given for each problem.

1. 582; Strategy: 781 - 200 = 581581 + 1 = 582

Estimate: 780 - 200 = 580

2. 52; Strategy: 358 + 2 = 360; Count on tens: 370, 380, 390, 400, 410;

$$2 + 10 + 10 + 10 + 10 + 10 = 52$$

Estimate: 410 - 360 = 50

3. 415; Strategy: I subtracted 1 from each number: 899 – 484 = 415.

Estimate: 900 - 500 = 400.

- **4. A.** 202 laps; Strategy: I subtracted 700 because 698 is close to 700: 900 700 = 200. Then I added 2 because I took away 2 more than I was supposed to take away. The answer is 202 laps.
 - **B.** Estimate: For my estimate, I found a friendly number for 698. I subtracted 900 700 = 200 laps. 200 is close to 202.

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Teacher Guide

Practice Mental Math (TG pp. 1–2) Homework Questions 1–6

Possible responses are shown for each question.

1. 328; Strategy: 427 - 100 = 327

327 + 1 = 328

Estimate: 427 - 100 = 327

2. 33; Strategy: 100 - 70 = 30

30 + 3 = 33

Estimate: 100 - 60 = 40; I subtracted

10 tens - 6 tens = 4 tens or 40.

3. 4: Strategy: I counted up from 799: 800, 801, 802, 803. That's 4.

Estimate: I found a friendly number for 803 is 800; 800 - 799 = 1.

4. 506; Strategy: I subtracted 700 - 200 = 500. Then I counted up from 59 to 65: 60, 61, 62, 63, 64, 65. That's 6 more. 500 + 6 = 506.

Estimate: About 750 minus about 250 is 500.

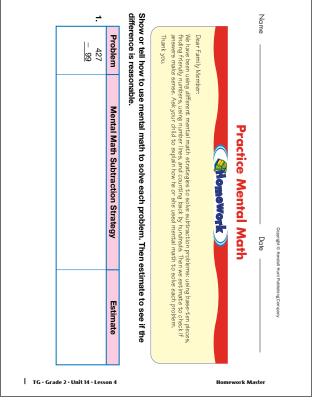
5. 150; Strategy: I counted up from 150 to 300 by fifties: 200, 250, 300. That's 3 fifties or 150.

Estimate: I subtracted the hundreds:

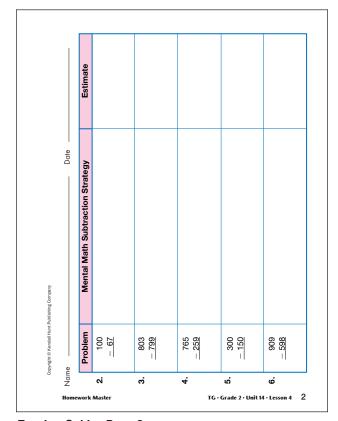
300 - 100 = 200. That's close to 150.

6. 311; Strategy: I counted up 2 from 598 to 600. 909 - 600 = 309. 309 + 2 = 311.

Estimate: I found friendly numbers for 909 and 598:900 - 600 = 300.



Teacher Guide - Page 1



Teacher Guide - Page 2