

Date _____

Name _____

Swimathon

1. This year there are more Sharks on the swim team. They have a new goal of swimming 750 laps in a week. The chart shows how many laps they swam each day. Find how many laps they have left at the end of each day. Estimate to check your answer for reasonableness. Show or tell how you estimated your answer.

Day of the Week	Swim Team Laps			Estimate
	Laps to Go at Beginning of Day	Total Laps for Each Day	Laps Remaining at End of Day	
Tuesday	750	198		
Wednesday		209		
Thursday		139		
Friday		265		

Did they reach their goal by the end of 4 days? _____

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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.

Date _____

Name _____

Estimate the answer to each problem. Show your work.

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 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.

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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.

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Mental Math Subtraction Strategies

Use mental math and show or tell how you solved each problem. Estimate to see if your answer is reasonable. If your estimate is not close to the difference, check your calculations. Use the *Subtraction Strategies Menu* in the Reference section.

Problem	Mental Math Subtraction Strategy	Estimate
1. $\begin{array}{r} 553 \\ - 8 \\ \hline \end{array}$		
2. $\begin{array}{r} 376 \\ - 49 \\ \hline \end{array}$		

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Name _____ Date _____

Problem	Mental Math Subtraction Strategy	Estimate
3. $\begin{array}{r} 402 \\ - 398 \\ \hline \end{array}$		
4. $\begin{array}{r} 1000 \\ - 864 \\ \hline \end{array}$		
5. $\begin{array}{r} 458 \\ - 99 \\ \hline \end{array}$		

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

Name _____ Date _____

Use Mental Math to Subtract

Use mental math and show or tell how you solved each problem. Estimate to see if your answer is reasonable. Use the *Subtraction Strategies Menu* in the Reference section.

Problem	Mental Math Subtraction Strategy	Estimate
1. $\begin{array}{r} 781 \\ - 199 \\ \hline \end{array}$		
2. $\begin{array}{r} 410 \\ - 358 \\ \hline \end{array}$		
3. $\begin{array}{r} 900 \\ - 485 \\ \hline \end{array}$		

4. In another swimathon, the Shark Team had to swim 900 laps in a week. After one day of swimming, they had 698 laps left.

A. How many laps did they swim that day? Show or tell how you solved the problem.

B. Show or tell how you estimated to check reasonableness.

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

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

1. 582; Strategy: $781 - 200 = 581$
 $581 + 1 = 582$
 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.

Name _____ Date _____

Use Mental Math to Subtract

Feedback Box

Subtract multidigit numbers using mental math strategies.

Estimate differences using mental math strategies.

Expectation	Check In	Comments
E6		
E8		

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MPE1. Know the problem. I read the problem carefully. I know the questions to answer and what information is important. [Q# 4]	Yes...	Yes, but...	No, but...	No...
MPE2. Find a strategy. I choose good tools and an efficient strategy for solving the problem. [Q# 1-4]				
MPE3. Check for reasonable-ness. I use my estimation to see if my answer makes sense. If it does not, I try again. [Q# 1-4]				
MPE4. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 1-4]				

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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: $900 - 600 = 300$.

Name _____ Date _____

Practice Mental Math

Homework

Dear Family Member:
 We have been using different mental math strategies to solve subtraction problems: using base-ten pieces,
 finding friendly numbers, using number lines, and counting back by hundreds. Then we estimate to check if
 answers make sense. Ask your child to explain how he or she used mental math to solve each problem.
 Thank you.

**Show or tell how to use mental math to solve each problem. Then estimate to see if the
 difference is reasonable.**

1.	$\begin{array}{r} 427 \\ - 99 \\ \hline \end{array}$	Mental Math Subtraction Strategy	Estimate
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Name _____ Date _____

		Mental Math Subtraction Strategy	Estimate
2.	$\begin{array}{r} 100 \\ - 67 \\ \hline \end{array}$		
3.	$\begin{array}{r} 803 \\ - 799 \\ \hline \end{array}$		
4.	$\begin{array}{r} 765 \\ - 259 \\ \hline \end{array}$		
5.	$\begin{array}{r} 300 \\ - 150 \\ \hline \end{array}$		
6.	$\begin{array}{r} 909 \\ - 598 \\ \hline \end{array}$		

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