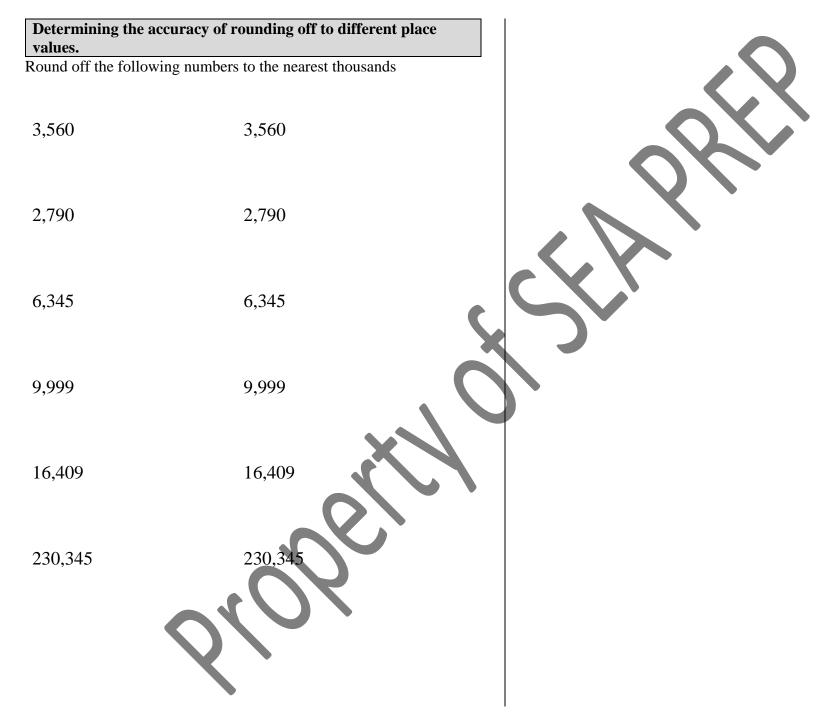
Unit – Using approximation and Estimation to determine reasonableness of Multistep operation problems

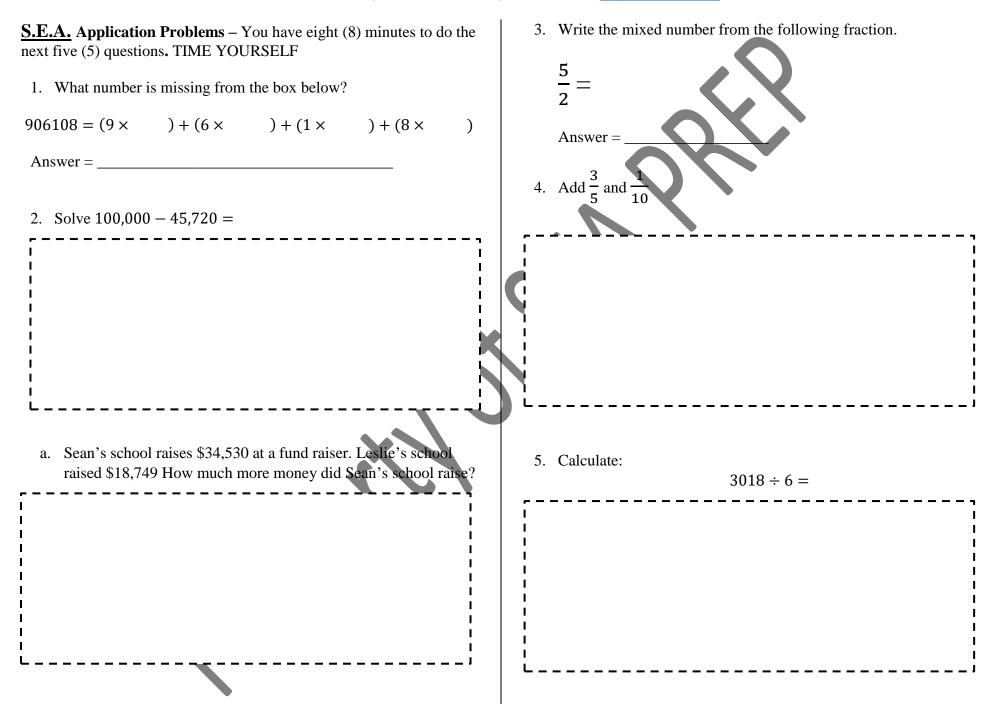
Topics

- ✓ Place value understanding do decompose large to smaller units.
- ✓ Rounding off to determine reasonableness of actual answers.

Date:	
Comments on completion of today's activities	
At home you can go ahead and calculate the actual answers for the problems on this sheet. Compare your actual answers with your estimated answers to see if it is reasonable.	
Conduct and other observations	
Items to Bring to Class	:
Teacher's Signature	

Two (2) minute sprint: 3 Addend Addition facts			
1)	9 + 4 + 4 =	2) 2+7+9 =	
3)	6 + 3 + 6 =	4) 2+5+1 =	
5)	5 + 0 + 6 =	6) 9+9+1 =	
7)	4 + 7 + 1 =	8) 3+5+5 =	
9)	6 + 9 + 9 =	10) 1+9+3 =	
11)	7 + 9 + 7 =	12) 5+5+2 =	
13)	1 + 7 + 7 =	14) 3 + 2 + 2 =	
15)	1 + 9 + 7 =	16) 1+9+6 =	
17)	1 + 6 + 1 =	18) 3+0+0 =	
19)	3 + 2 + 0 =	20) 4 + 5 + 8 =	
21)	0 + 3 + 3 =	22) 7+6+4 =	
23)	9 + 8 + 1 =	24) 6+4+7 =	
25)	9 + 6 + 8 =	26) 6+2+5 =	
27)	0 + 3 + 9 =	28) 6+5+3 =	
29)	7 + 7 + 5 =	30) 2+6+9 =	





Rounding off to determine reasonableness of actual answers	Try these:
Using tape diagrams and estimation skills help to support the reasonableness of your answers. Example Jennifer texted 5,849 times in January. In February, she texted 1,263 more times than in January.	 A company has 3 locations with 70,010 employees altogether. The first location has 34,857 employees. The second location has 17,595 employees. How many employees work in the third location? Draw a tape diagram and estimate to determine what would be a reasonable answer. Draw tape diagram:
	I Diaw tape diagram.
a. What was the total number of texts that Jennifer sent	
in the two months combined?	
b. Explain how to know if the answer is reasonable.	
January 5,849 January 26,000 313,000 February 7,000 313,000 February 7,000 313,000 My answer is reasonable because if I roond January and February, I get 13,000. 12,961 rounded is 13,000, so my answer is reasonable.	Round off and estimate:
How do I know my answer is reasonable?	
We can round off our numbers to thousands then reason the problem. given.	

2. Owen's goal is to have 1 million people visit his new website 3. There were 12,345 people at a concert on Saturday night. On within the first four months of it being launched. Below is a chart Sunday night, there were 1,795 fewer people at the concert than on showing the number of visitors each month. Saturday night. a. How many people attended the concert on both nights? Month Month 1 Month 2 Month 3 Month 4 Draw tape diagram: Visitors 228,211 301,856 299,542 a. How many more visitors does he need in Month 4 to reach his goal? Draw tape diagram: Round off and estimate: Round off and estimate:

 4. A class read 3,452 pages the first week and 4,090 more pages in the second week than in the first week. a. How many pages had they read by the end of the second week? Is your answer reasonable? I Draw tape diagram: 	 5. On Monday, a farmer sold 25,196 kilograms of potatoes. On Tuesday, he sold 18,023 kilograms. On Wednesday, he sold some more potatoes. In all, he sold 62,409 kilograms of potatoes. a. About how many kilograms of potatoes did the farmer sell on Wednesday?
Round off and estimate:	Draw tape diagram: Round off and estimate:

 Martin's car had 86,456 kilometres on it. Of that distance, Martin's wife drove 24,901 kilometres, and his son drove 7,997 kilometres. Martin drove the rest. 	7. A bakery used 12,674 kg of flour. Of that, 1,802 kg was whole wheat and 888 kg was rice flour. The rest was all-purpose flour.a. How much all-purpose flour did they use?
a. About how many kilometres did Martin drive? Round each value to estimate.	Draw tape diagram:
Draw tape diagram: Round off and estimate:	Round off and estimate:
L/	