Estimating Sums and Differences

Notes, Practice Pages and Word Problems

Estimating Sums and Differences:

① Round each number.

② Add or subtract to find the estimated sum or difference.

42 ⟹
+ 27 ⟹

Estimating Sums and Differences With Word Problems:

① Read the problem care[fully]

② Use problem solving addition or subtraction

③ Round each numb[er]

④ Add or subtract t[o] difference.

EX: Marcy keeps a total of 21 m... Wh[at]

Estimate the Sums and Differences:

92	26	74
- 45	+ 12	+ 59

48	76	6[1]
+ 31	- 47	- [?]

54	56	
+ 35	+ 18	

45	62	
+ 33	- 27	

38	[?]	
+ 19	- 56	

Estimating Problem Solving #1 page2:

6. Jeremy had 93 baseball cards. He gave 29 to his little brother. About how many does he have now?

7. The book store sold 422 books in July and 592 books in August. About how many more books did the bookstore sell in July than August?

...stomers last weekend and 298 ...e best estimate for the number of

...racelets for their friends. Marina used ...eads. What is the best estimate for how ...han her sister?

...r. Jergen's class and 23 students in Ms. ...students are in the two classes?

Estimate the Sums and Diffences:

365	
+ 152	

	422
	- 341

723	
+ 459	

536	
- 341	

845	
+ 121	

	610
	- 220

256	
+ 155	

	801
	+ 192

393	
- 252	

	985
	- 735

446	
- 130	

924	
- 341	

638	674
+ 275	- 585

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Estimating Sums and Differences :

① Round each number.

② Add or subtract to find the estimated sum or difference.

$$
\begin{array}{r}
42 \\
+\ 27 \\
\end{array}
\implies
\begin{array}{r}
40 \\
+\ 30 \\
\hline
70 \\
\end{array}
$$

$$
\begin{array}{r}
635 \\
-\ 182 \\
\end{array}
\implies
\begin{array}{r}
600 \\
-\ 200 \\
\hline
400 \\
\end{array}
$$

Estimating Sums and Differences :

① Round each number.

② Add or subtract to find the estimated sum or difference.

$$42 \implies$$

$$+ \ 27 \implies \qquad + \ \underline{\qquad}$$

$$635 \implies$$

$$- \ 182 \implies \qquad + \ \underline{\qquad}$$

Estimating Sums and Differences With Word Problems :

① Read the problem carefully.

② Use problem solving skills to decide if it is an addition or subtraction problem..

③ Round each number.

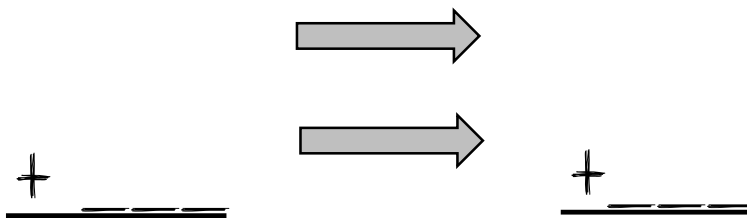④ Add or subtract to find the estimated sum or difference.

EX: Marcy keeps a journal of her running. She ran a total of 21 miles last week and 37 miles the week before. What is the best estimate of the total miles she ran in 2 weeks.

$$
\begin{array}{r}
21 \\
+\ 37 \\
\hline
\end{array}
\implies
\begin{array}{r}
20 \\
+\ 40 \\
\hline
60
\end{array}
$$

Estimating Sums and Differences
With Word Problems :

① Read the problem carefully.

② Use problem solving skills to decide if it is an addition or subtraction problem..

③ Round each number.

④ Add or subtract to find the estimated sum or difference.

EX: Marcy keeps a journal of her running. She ran a total of 21 miles last week and 37 miles the week before. What is the best estimate of the total miles she ran in 2 weeks.

$$+ \underline{} \qquad \Longrightarrow \qquad + \underline{}$$

Estimate the Sums and Differences:

42 + 36	71 - 28	59 + 26
63 + 29	94 - 52	56 - 38
57 + 62	52 - 13	48 + 45
27 + 22	29 - 21	87 - 34
74 + 32	32 - 18	29 + 14

Estimate the Sums and Differences:

$$
\begin{array}{r} 92 \\ -\ 45 \\ \hline \end{array}
\qquad
\begin{array}{r} 26 \\ +\ 12 \\ \hline \end{array}
\qquad
\begin{array}{r} 74 \\ +\ 59 \\ \hline \end{array}
$$

$$
\begin{array}{r} 48 \\ +\ 31 \\ \hline \end{array}
\qquad
\begin{array}{r} 76 \\ -\ 47 \\ \hline \end{array}
\qquad
\begin{array}{r} 61 \\ -\ 22 \\ \hline \end{array}
$$

$$
\begin{array}{r} 54 \\ +\ 35 \\ \hline \end{array}
\qquad
\begin{array}{r} 56 \\ +\ 18 \\ \hline \end{array}
\qquad
\begin{array}{r} 28 \\ -\ 13 \\ \hline \end{array}
$$

$$
\begin{array}{r} 45 \\ +\ 33 \\ \hline \end{array}
\qquad
\begin{array}{r} 62 \\ -\ 27 \\ \hline \end{array}
\qquad
\begin{array}{r} 63 \\ -\ 31 \\ \hline \end{array}
$$

$$
\begin{array}{r} 38 \\ +\ 19 \\ \hline \end{array}
\qquad
\begin{array}{r} 82 \\ -\ 56 \\ \hline \end{array}
\qquad
\begin{array}{r} 23 \\ +\ 14 \\ \hline \end{array}
$$

Estimate the Sums and Differences:

$$\begin{array}{r} 76 \\ -\ 49 \\ \hline \end{array} \qquad \begin{array}{r} 46 \\ +\ 28 \\ \hline \end{array} \qquad \begin{array}{r} 37 \\ +\ 12 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ +\ 32 \\ \hline \end{array} \qquad \begin{array}{r} 59 \\ -\ 43 \\ \hline \end{array} \qquad \begin{array}{r} 98 \\ -\ 55 \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ -\ 63 \\ \hline \end{array} \qquad \begin{array}{r} 42 \\ +\ 39 \\ \hline \end{array} \qquad \begin{array}{r} 43 \\ +\ 27 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ +\ 19 \\ \hline \end{array} \qquad \begin{array}{r} 91 \\ -\ 21 \\ \hline \end{array} \qquad \begin{array}{r} 88 \\ -\ 67 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ -\ 12 \\ \hline \end{array} \qquad \begin{array}{r} 54 \\ +\ 24 \\ \hline \end{array} \qquad \begin{array}{r} 63 \\ +\ 41 \\ \hline \end{array}$$

Estimate the Sums and Differences:

$$421 + 326$$

$$256 - 190$$

$$602 - 554$$

$$890 - 230$$

$$247 + 262$$

$$561 - 423$$

$$249 + 201$$

$$394 + 341$$

$$477 - 134$$

$$510 + 299$$

$$925 - 741$$

$$326 - 152$$

$$685 - 591$$

$$723 + 230$$

$$566 + 233$$

Estimate the Sums and Differences:

$$365 + 152$$

$$422 - 341$$

$$610 - 220$$

$$723 + 459$$

$$536 - 341$$

$$801 + 192$$

$$845 + 121$$

$$256 + 155$$

$$955 - 735$$

$$393 - 252$$

$$446 - 130$$

$$674 - 595$$

$$924 - 341$$

$$638 + 225$$

$$206 + 192$$

Estimate the Sums and Differences:

$$745 + 211$$

$$846 - 591$$

$$426 + 399$$

$$564 - 452$$

$$223 + 175$$

$$591 - 201$$

$$645 - 137$$

$$690 + 220$$

$$375 - 250$$

$$152 + 192$$

$$883 - 465$$

$$945 - 737$$

$$792 - 350$$

$$442 - 321$$

$$295 + 236$$

Estimating Problem Solving #1:

1. Esteban played video games for 14 hours last month. His sister played for 23 hours. About how many hours did they play in all?

2. Mrs. Kirk spent $189 at the grocery store last week. Ms. Jones spent $265 on groceries last week. What is the best estimate of the difference between the amounts they spent ?

3. The bike barn sold 42 bikes in August. In September they sold 27 bikes. What is the best estimate of how many bikes they sold in August and September?

4. The library loaned out 234 books in March and 372 books in April. About how many hours did they loan out in both months?

5. Jenny read 27 pages of her chapter book last night. Her brother Joe read 58 pages of his book. About how many more pages did Joe read than Jenny?

Estimating Problem Solving #1 page2 :

6. Jeremy had 93 baseball cards. He gave 29 to his little brother. About how many does he have now ?

7. The book store sold 622 books in July and 492 books in August. About how many more books did the bookstore sell in July than August ?

8.   The Pancake House served 326 customers last weekend and 298 customers this weekend.   What is the best estimate for the number of customers served both weekends?

9.   Marina and her sister made bracelets for their friends. Marina used 85 beads and her sister used 62 beads. What is the best estimate for how many more beads Marina used than her sister?

10. There are 28 students in Mr. Jergen's class and 23 students in Ms. Lyons class. About how many students are in the two classes ?

Estimating Problem Solving #2:

1. Lanie has 38 stuffed animals. Her best friend has 47 stuffed animals. About how many stuffed animals do they have together?

2. Max volunteered at the animal shelter last weekend. There were 31 dogs and 22 cats adopted that weekend. About how many cats and dogs were adopted last weekend from the shelter?

3. Krista's mom makes hair bows to sell at the craft fair. She made 84 bows and sold 29. About how many bows does she have left .?

4. Ms. Lance took her children shopping last weekend. She spent $290 at one store and $172 at another store. What is the best estimate of the total she spent at both stores?

5. Martin read 217 pages of his novel. He has 189 pages more to finish the novel. About how many pages is the novel?

Estimating Problem Solving #2 page 2:

6. Manuel bought 25 pounds of dog food and 12 pounds of cat food for his pets. About how many pounds did he buy ?

7. Rachel drove 239 miles to her grandmother's house. Then she drove 102 miles to see her brother. About how many miles did she drive?

8.   The toy store sold 83 toys on Saturday and 47 on Sunday. What is the best estimate of how many more toys they sold on Saturday than Sunday?

9.   Mandy had a Math test on Tuesday. There were 28 questions. On Wednesday she had a Social Studies test with 49 questions. About how many questions were on both tests?

10.   Randy spent $231 at the mall. His brother Ken spent $385. What is the best estimate of how much more Ken spent than Randy ?

Estimate the Sums and Differences:

42 + 36	40 + 40 80	71 - 28	70 - 30 40	59 + 26	60 + 30 90
63 + 29	60 + 30 90	94 - 52	90 - 50 40	56 - 38	60 - 40 20
57 + 62	60 + 60 120	52 - 13	50 - 10 40	48 + 45	50 + 50 100
27 + 22	30 + 20 50	29 - 21	30 - 20 10	87 - 34	90 - 30 60
74 + 32	70 + 30 100	32 - 18	30 - 20 10	29 + 14	30 + 10 0

Estimate the Sums and Differences:

92	90	26	30	74	70
− 45	− 50	+ 12	+ 10	+ 59	+ 60
	40		40		130

48	50	76	80	61	60
+ 31	+ 30	− 47	− 50	− 22	− 20
	80		30		40

54	50	56	60	28	30
+ 35	+ 40	+ 18	+ 20	− 13	− 10
	90		80		20

45	50	62	60	63	60
+ 33	+ 30	− 27	− 30	− 31	− 30
	80		30		30

38	40	82	80	23	20
+ 19	+ 20	− 56	− 60	+ 14	+ 10
	60		20		30

Estimate the Sums and Differences:

$$
\begin{array}{rr}
76 & 80 \\
-49 & -50 \\
\hline
 & 30
\end{array}
\qquad
\begin{array}{rr}
46 & 50 \\
+28 & -30 \\
\hline
 & 20
\end{array}
\qquad
\begin{array}{rr}
37 & 40 \\
+12 & +10 \\
\hline
 & 90
\end{array}
$$

$$
\begin{array}{rr}
61 & 60 \\
+32 & +30 \\
\hline
 & 90
\end{array}
\qquad
\begin{array}{rr}
59 & 60 \\
-43 & -40 \\
\hline
 & 20
\end{array}
\qquad
\begin{array}{rr}
98 & 100 \\
-55 & -60 \\
\hline
 & 40
\end{array}
$$

$$
\begin{array}{rr}
82 & 80 \\
-63 & -60 \\
\hline
 & 20
\end{array}
\qquad
\begin{array}{rr}
42 & 40 \\
+39 & +40 \\
\hline
 & 80
\end{array}
\qquad
\begin{array}{rr}
43 & 40 \\
+27 & +30 \\
\hline
 & 70
\end{array}
$$

$$
\begin{array}{rr}
27 & 30 \\
+19 & +20 \\
\hline
 & 50
\end{array}
\qquad
\begin{array}{rr}
91 & 90 \\
-21 & -20 \\
\hline
 & 80
\end{array}
\qquad
\begin{array}{rr}
88 & 90 \\
-67 & -70 \\
\hline
 & 20
\end{array}
$$

$$
\begin{array}{rr}
36 & 30 \\
-12 & -10 \\
\hline
 & 20
\end{array}
\qquad
\begin{array}{rr}
54 & 50 \\
+24 & +20 \\
\hline
 & 10
\end{array}
\qquad
\begin{array}{rr}
63 & 60 \\
+41 & +40 \\
\hline
 & 100
\end{array}
$$

Estimate the Sums and Differences:

421	400	256	300	602	600
+ 326	+ 300	- 190	- 200	- 554	- 600
	700		100		0

890	900	247	200	561	600
- 230	- 200	+ 262	+ 300	- 423	- 400
	700		40		200

249	200	394	400	477	500
+ 201	+ 200	+ 341	- 300	- 134	- 100
	400		100		400

510	500	925	900	326	300
+ 299	+ 300	- 741	- 700	- 152	- 200
	800		200		100

685	700	723	700	566	600
- 591	- 600	+ 230	+ 200	+ 233	+ 200
	100		900		800

Estimate the Sums and Differences:

365	400	422	400	610	600
+ 152	+ 200	- 341	- 300	- 220	- 200
	600		100		400

723	700	536	500	801	800
+ 459	+ 500	- 341	- 300	+ 192	- 200
	1,200		100		600

845	800	256	300	955	1,000
+ 121	+ 100	+ 155	+ 200	- 735	- 700
	900		500		300

393	400	446	400	674	700
- 252	+ 300	- 130	- 100	- 595	- 600
	700		300		100

924	900	638	600	206	200
- 341	- 300	+ 225	- 200	+ 192	+ 200
	600		400		400

Estimate the Sums and Differences:

745	700	846	800	426	400
+ 211	+ 200	- 591	- 600	+ 399	+ 400
	900		400		800

564	600	223	200	591	600
- 452	- 500	+ 175	+ 200	- 201	- 200
	90		400		400

645	600	690	700	375	400
- 137	- 100	+ 220	+ 200	- 250	- 300
	500		900		100

152	200	883	900	945	900
+ 192	+ 200	- 465	- 500	- 737	- 700
	400		400		200

792	700	442	400	295	300
- 350	- 300	- 321	- 300	+ 236	+ 200
	400		100		500

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1. Esteban played video games for 14 hours last month. His sister played for 23 hours. About how many hours did they play in all?

$$10 + 20 = 30$$

2. Mrs. Kirk spent $189 at the grocery store last week. Ms. Jones spent $265 on groceries last week. What is the best estimate of the difference between the amounts they spent ?

$$300 - 200 = 100$$

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Estimating Problem Solving #1 page2 :

6. Jeremy had 93 baseball cards. He gave 29 to his little brother. About how many does he have now ?

$$90 - 30 = 60$$

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$$600 - 500 = 100$$

8.   The Pancake House served 326 customers last weekend and 298 customers this weekend.   What is the best estimate for the number of customers served both weekends?

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$$30 + 20 = 50$$

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10. Randy spent $231 at the mall. His brother Ken spent $385. What is the best estimate of how much more Ken spent than Randy ?

$$400 - 200 = 200$$