Will the actual sum be more or less than the estimate of 500 cans?
[More, because both rounded numbers are less than the actual numbers]

Another Way

Substitute compatible numbers. Compatible numbers are easy to add.

$$237 \rightarrow 250$$
$$+\ 345 \rightarrow +\ 350$$
$$\overline{600}$$

237 + 345 is about 600. The students collected about 600 cans of dog food in Weeks 3 and 4.

How does using compatible numbers instead of rounding change the estimate in this example? [Using compatible numbers results in an estimate closer to the actual sum.]

Prevent Misconceptions

Point out that the compatible numbers are not to be multiples of 100. Any estimates that are easy to add and close to the original numbers can be compatible numbers.

One Way

Round each addend to the nearest hundred.

$$237 \rightarrow 200$$
$$+\ 345 \rightarrow +\ 300$$
$$\overline{500}$$

237 + 345 is about 500. The students collected about 500 cans of dog food in Weeks 3 and 4.

Another Way

Substitute compatible numbers. Compatible numbers are easy to add.

$$237 \rightarrow 250$$
$$+\ 345 \rightarrow +\ 350$$
$$\overline{600}$$

237 + 345 is about 600. The students collected about 600 cans of dog food in Weeks 3 and 4.

3 **Independent Practice**

If students are having difficulty with Exercises 21–24 and 33–39, you may suggest that they write the problems in vertical form.

Also remind students that all numbers in a specific problem should be rounded to the same place value.

Independent Practice

Estimate each sum or difference. **Sample answers are given.**

9.
```
   79
+ 32
  110
```
10.
```
  788
- 572
  200
```
11.
```
  103
+ 798
  900
```
12.
```
  2,488
- 1,320
  1,200
```

13.
```
   64
+ 48
  110
```
14.
```
  837
+ 488
  1,300
```
15.
```
   51
- 18
  30
```
16.
```
  7,889
+ 6,455
  14,000
```

17.
```
  184
-  58
  120
```
18.
```
  847
- 379
  400
```
19.
```
  3,856
- 2,357
  2,000
```
20.
```
  7,647
-  369
  7,200
```

21. 3,205 – 2,812 **400**
22. 93 – 46 **40**
23. 1,052 + 963 **2,000**
24. 149 – 51 **100**

Estimate each sum or difference. **Sample answers are given.**

25.
```
   2.9
+ 3.9
   7
```
26.
```
  7.28
- 1.32
   6
```
27.
```
  $11.33
+ 32.43
  $40
```
28.
```
  $12.99
-  3.95
  $9
```

29.
```
   8.1
   3.7
+ 7.9
  20
```
30.
```
   3.8
   4.1
+ 3.3
  11
```
31.
```
   67.9
+ 81.34
  150
```
32.
```
  78.11
+ 46.03
  130
```

33. 77.11 – 8.18 **70**
34. 35.4 – 7.8 **27**
35. 89.66 – 27.9 **60**
36. 99.9 – 27.9 **70**
37. 22.8 + 49.2 + 1.7 **72**
38. 67.5 – 13.7 **60**
39. $9.10 + $48.50 + $5.99 **$65**