Name _____

Find Sums on an Addition Table

Essential Question How do you find sums on an addition table?

Model and Draw

3 + 4 = ?

The sum for 3 + 4 is found where row 3 and column 4 meet.

3 + 4 = __7__

column →

+	0	1	2	3	④
0	0	1	2	3	4
1	1	2	3	4	5
2	2	3	4	5	6
③ ← row	3	4	5	6	⑦
4	4	5	6	7	8

Share and Show

(Math Board)

1. Write the missing sums in the addition table.

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6			9	
1	1	2	3	4	5	6			9		11
2	2	3	4	5	6			9		11	12
3	3	4	5	6			9		11	12	13
4	4	5	6			9		11	12	13	14
5	5	6			9		11	12	13	14	15
6	6			9		11	12	13	14	15	16
7			9		11	12	13	14	15	16	17
8		9		11	12	13	14	15	16	17	18
9	9		11	12	13	14	15	16	17	18	19
10		11	12	13	14	15	16	17	18	19	20

Math Talk Describe a pattern in the addition table.

On Your Own

2. Write the missing sums in the addition table.

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	
2	2	3	4	5	6	7	8	9	10		12
3	3	4	5	6	7	8	9	10		12	
4	4	5	6	7	8	9	10		12		
5	5	6	7	8	9	10		12			15
6	6	7	8	9	10		12			15	16
7	7	8	9	10		12			15	16	17
8	8	9	10		12			15	16	17	18
9	9	10		12			15	16	17	18	19
10	10		12			15	16	17	18	19	20

PROBLEM SOLVING REAL WORLD

Solve. Write or draw to explain.

3. Natasha has 13 apples. Some apples are red and some are green. She has more red apples than green apples. How many red apples and how many green apples could she have?
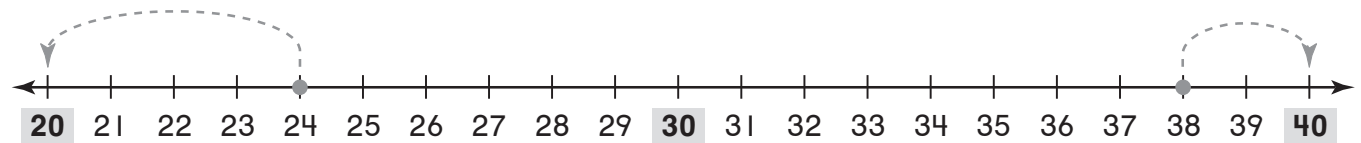
TAKE HOME ACTIVITY • Ask your child to explain how to use the addition table to find the sum of 8 + 6.

two hundred sixty-two

Name _____

Estimate Sums: 2-Digit Addition

Essential Question How can you estimate the sum of two 2-digit numbers?

Model and Draw

Estimate the sum of $24 + 38$.

Find the nearest ten for each number.

$$\underline{20} + \underline{40} = \underline{60}$$

An estimate of the sum is ____60____.

Share and Show

Find the nearest ten for each number.

1. Estimate the sum of $18 + 29$.

Add the tens to estimate.

$$\underline{\qquad} + \underline{\qquad} = \underline{\qquad}$$

An estimate of the sum is _____.

Math Talk How did you know which ten is nearest to 18?

On Your Own

Find the nearest ten for each number.
Add the tens to estimate.

2. Estimate the sum of $13 + 28$.

```
←——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——→
  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
```

_____ + _____ = _____

An estimate of the sum is _____.

---

3. Estimate the sum of $31 + 22$.

```
←——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——→
  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40
```

_____ + _____ = _____

An estimate of the sum is _____.

PROBLEM SOLVING REAL WORLD

Solve. Write or draw to explain.

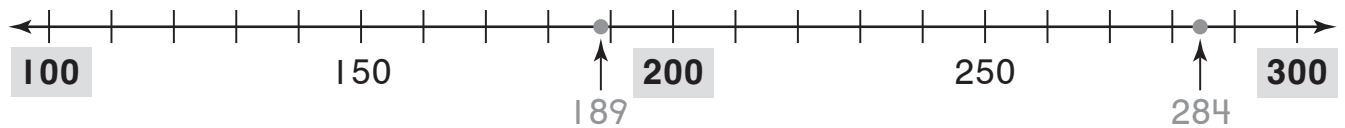**4.** Mark has 34 pennies. Emma has 47 pennies. About how many pennies do they have altogether?

about _____ pennies

TAKE HOME ACTIVITY • Ask your child to use the number line for Exercise 2 and describe how to estimate the sum of $27 + 21$.

P264 two hundred sixty-four

Name _____

Estimate Sums: 3-Digit Addition

Essential Question How can you estimate the sum of two 3-digit numbers?

Model and Draw

Estimate the sum of $189 + 284$.
Find the nearest hundred for each number.

$$\underline{200} + \underline{300} = \underline{500}$$

$$100 \quad\quad 150 \quad\quad |189 \quad 200 \quad\quad 250 \quad\quad 284 \quad 300$$

An estimate of the sum is $\underline{500}$.

Share and Show

Find the nearest hundred for each number.
Add the hundreds to estimate.

1. Estimate the sum of $229 + 386$.

$$200 \quad\quad 250 \quad\quad 300 \quad\quad 350 \quad\quad 400$$

$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$
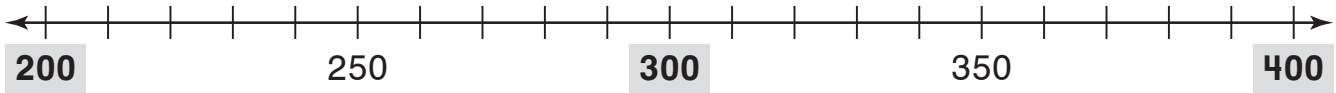
An estimate of the sum is _____.

Math Talk How do you know which two hundreds a 3-digit number is between?

On Your Own

Find the nearest hundred for each number.
Add the hundreds to estimate.

2. Estimate the sum of $324 + 218$.

```
←─┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬─→
  200          250          300          350          400
```

_____ $+$ _____ $=$ _____

An estimate of the sum is _____.

_____

3. Estimate the sum of $468 + 439$.

```
←─┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬─→
  300          350          400          450          500
```

_____ $+$ _____ $=$ _____

An estimate of the sum is _____.

PROBLEM SOLVING REAL WORLD

Solve. Write or draw to explain.

4. There are 375 yellow fish and 283 blue fish
swimming around a coral reef. About
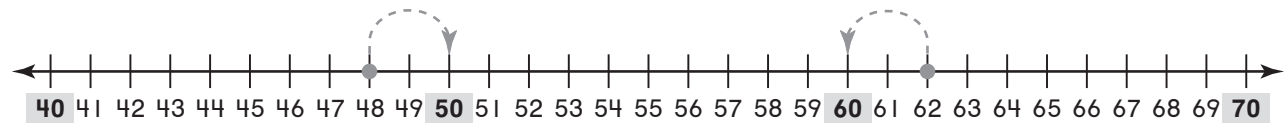how many fish are there altogether?

about _____ fish

TAKE HOME ACTIVITY • Ask your child to use the number line for Exercise 2 and
describe how to estimate the sum of $215 + 398$.

Estimate Differences: 2-Digit Subtraction

Essential Question How can you estimate the difference of two 2-digit numbers?

Model and Draw

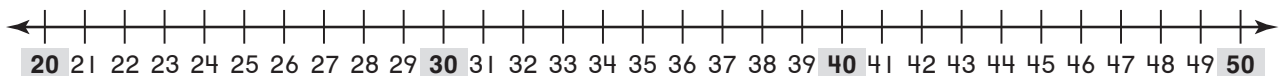Estimate the difference of 62 − 48.
Find the nearest ten for each number.

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←——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——→
   40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70
```

$\underline{60} - \underline{50} = \underline{10}$

An estimate of the difference is $\underline{10}$.

Share and Show

Math Board

Find the nearest ten for each number.
Subtract the tens to estimate.

1. Estimate the difference of 42 − 29.

```
←——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——┼——→
   20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
```

$\underline{} - \underline{} = \underline{}$

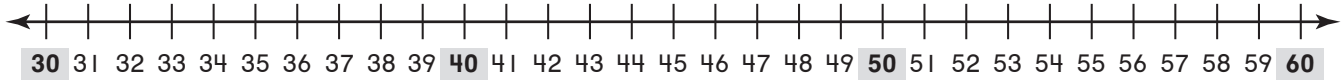An estimate of the difference is $\underline{}$.

Math Talk How do you know which two tens a number is between?

On Your Own

Find the nearest ten for each number.
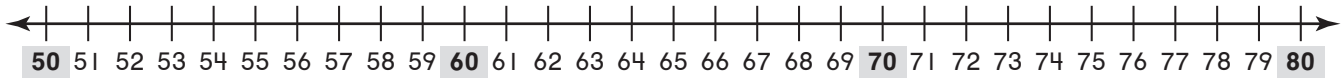Subtract the tens to estimate.

2. Estimate the difference of 51 − 39.

```
←┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼→
 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
```

_____ − _____ = _____

An estimate of the difference is _____.

_____

3. Estimate the difference of 79 − 56.

```
←┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼→
 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
```

_____ − _____ = _____

An estimate of the difference is _____.

PROBLEM SOLVING REAL WORLD

Solve. Write or draw to explain.

4. A farmer has 91 cows. 58 of the cows are in the barn. About how many of the cows are not in the barn?

about _____ cows

TAKE HOME ACTIVITY • Ask your child to use the number line for Exercise 2 and describe how to estimate the difference of 57 − 41.

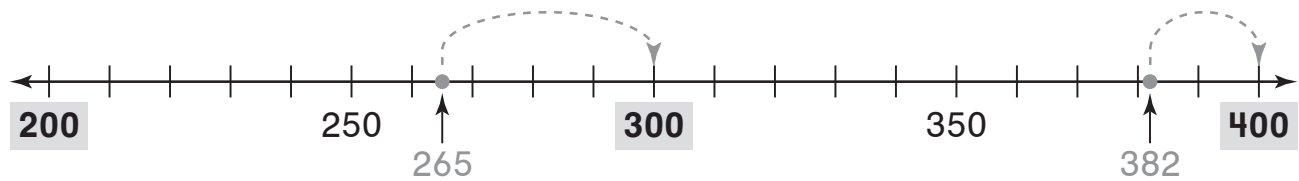**P268** two hundred sixty-eight

Estimate Differences:
3-Digit Subtraction

Essential Question How can you estimate the difference of two 3-digit numbers?

Model and Draw

Estimate the difference of 382 − 265.
Find the nearest hundred for each number.

$$\underline{400} - \underline{300} = \underline{100}$$

An estimate of the difference is __100__.

Share and Show

Find the nearest hundred for each number.
Subtract the hundreds to estimate.

1. Estimate the difference of 674 − 590.

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

An estimate of the difference is _____.

Math Talk How did you know which hundred is nearest to 674?

Getting Ready for Grade 3

On Your Own

Find the nearest hundred for each number.
Subtract the hundreds to estimate.

2. Estimate the difference of $791 - 612$.

600   650   **700**   750   **800**

_____ − _____ = _____

An estimate of the difference is _____.

---

3. Estimate the difference of $487 - 309$.

300   350   **400**   450   **500**

_____ − _____ = _____

An estimate of the difference is _____.

PROBLEM SOLVING REAL WORLD

Solve. Write or draw to explain.

4. A mail carrier had 819 letters to deliver.
Then she delivered 687 letters. About how
many letters does she still have to deliver?

about _____ letters

TAKE HOME ACTIVITY • Ask your child to use the number line for Exercise 2
and describe how to estimate the difference of $786 - 611$.

P270 two hundred seventy