

## Problem Solving - Skill 3 - 7F

**Estimation: Subtraction**

**Directions:** Read the word problem and use rounding to estimate. Then subtract to see if your estimate is reasonable.

**Example**

On Monday the public library received 410 pieces of mail. On Tuesday the library received 195 pieces of mail. To the **nearest hundred**, estimate how many more pieces of mail the library received on Monday than on Tuesday.

**Step 1**

**Estimate** how many pieces of mail by rounding to the nearest hundred.

$$\begin{array}{r} 400 \\ - 200 \\ \hline 200 \end{array}$$

**Step 2**

Fill in the blank space below with your estimate.

The library received **about** 200 more pieces of mail on Monday.

**Step 3**

How did you find your estimate? Write on the lines below.

410 is closer to 400 than 500.    195 is closer to 200 than 100.

$$400 - 200 = 200$$

**Step 4**

Subtract to check your estimate.

$$\begin{array}{r} 410 \\ - 195 \\ \hline 215 \end{array}$$

215 is close to the estimate of 200 so the estimate is reasonable.

Name \_\_\_\_\_

Date \_\_\_\_\_

### Problem Solving - Skill 3 - 7F

#### Estimation: Subtraction

**Directions:** Read the word problem and use rounding to estimate. Then subtract to see if your estimate is reasonable.

1. Matthew's family went on a trip to an amusement park. The drive took 2 days. The first day they drove 163 miles. The second day they traveled 452 miles. To the **nearest hundred**, estimate how many more miles the family traveled the second day than on the first day.

#### Step 1

**Estimate** how many more miles were traveled on the second day.

#### Step 2

Fill in the blank space below with your estimate.

Matthew's family traveled **about** \_\_\_\_\_ more miles on the second day.

#### Step 3

How did you find your estimate? Write on the lines below.

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#### Step 4

Subtract to check your estimate.

Is your estimate is reasonable?

(circle one)

Yes No

Name \_\_\_\_\_

Date \_\_\_\_\_

### Problem Solving - Skill 3 - 7F

#### Estimation: Subtraction

**Directions:** Read the word problem and use rounding to estimate. Then subtract to see if your estimate is reasonable.

2. The surf club picked up trash on the beach. The surfers picked up 824 pounds of trash on the first day. They picked up 287 pounds of trash on the second day. To the **nearest hundred**, estimate how many more pounds of trash were picked up the first day.

#### Step 1

**Estimate** how many more pounds of trash were picked up the first day.



#### Step 2

Fill in the blank space below with your estimate.

The first day **about** \_\_\_\_\_ more pounds of trash were picked up.

#### Step 3

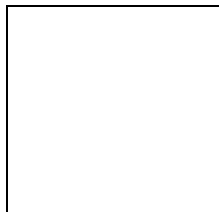
How did you find your estimate? Write on the lines below.

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#### Step 4

Subtract to check your estimate.



Is your estimate is reasonable?

(circle one)

Yes No

Name \_\_\_\_\_

Date \_\_\_\_\_

### Problem Solving - Skill 3 - 7F

#### Estimation: Subtraction

**Directions:** Read the word problem and use rounding to estimate. Then subtract to see if your estimate is reasonable.

3. A nearby grocery store sold 782 gallons of milk in 1 week. The next week, 339 gallons of milk were sold. To the **nearest hundred**, estimate how many more gallons of milk were sold in the first week than the second week.

#### Step 1

**Estimate** how many more gallons of milk were sold in the first week.

#### Step 2

Fill in the blank space below with your estimate.

The grocery store sold **about** \_\_\_\_\_ more gallons of milk in the first week.

#### Step 3

How did you find your estimate? Write on the lines below.

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#### Step 4

Subtract to check your estimate.

Is your estimate is reasonable?

(circle one)

Yes No

Name \_\_\_\_\_

Date \_\_\_\_\_

### Problem Solving - Skill 3 - 7F

#### Estimation: Subtraction

**Directions:** Read the word problem and use rounding to estimate. Then subtract to see if your estimate is reasonable.

4. An adult male lion weighs about 332 pounds. An adult female lion weighs about 265 pounds. To the **nearest ten**, estimate how many more pounds the adult male lion weighs than the female lion.

#### Step 1

**Estimate** how many more pounds the adult male lion weighs than the female lion.

#### Step 2

Fill in the blank space below with your estimate.

The adult male lion weighs **about** \_\_\_\_\_ more pounds than the female lion.

#### Step 3

How did you find your estimate? Write on the lines below.

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#### Step 4

Subtract to check  
your estimate.

Is your estimate is reasonable?

(circle one)

Yes No

Name \_\_\_\_\_

Date \_\_\_\_\_

### Problem Solving - Skill 3 - 7F

#### Estimation: Subtraction

**Directions:** Read the word problem and use rounding to estimate. Then subtract to see if your estimate is reasonable.

5. A nearby pet store sold 172 pounds of cat food in 1 week. The next week the store sold 125 pounds of cat food. To the **nearest ten**, estimate how many more pounds of cat food were sold in the first week.

#### Step 1

**Estimate** how many more pounds of cat food were sold in the first week.

#### Step 2

Fill in the blank space below with your estimate.

The pet store sold **about** \_\_\_\_\_ more pounds of cat food in the first week.

#### Step 3

How did you find your estimate? Write on the lines below.

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#### Step 4

Subtract to check your estimate.

Is your estimate is reasonable?

(circle one)

Yes No

Answer Key - Skill 3 - 7F

**Estimation: Subtraction**

1. **Estimate** how many miles: The family traveled about 300 more miles on the second day. (nearest hundred)

How did you find your estimate?

452 is closer to 500 than 400.      163 is closer to 200 than 100.

Subtract to see if your estimate is reasonable.

$$\begin{array}{r} 452 \\ - 163 \\ \hline 289 \end{array}$$

289 is close to the estimate of 300 so the estimate is reasonable.

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2. **Estimate** how many pounds: The surf club picked up about 500 more pounds of trash on the first day. (nearest hundred)

How did you find your estimate?

824 is closer to 800 than 900.      287 is closer to 300 than 200.

Subtract to see if your estimate is reasonable.

$$\begin{array}{r} 824 \\ - 287 \\ \hline 537 \end{array}$$

537 is close to the estimate of 500 so the estimate is reasonable.

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3. **Estimate** how many gallons: The grocery store sold **about** 500 more gallons of milk in the first week. (nearest hundred)

How did you find your estimate?

782 is closer to 800 than 700.      309 is closer to 300 than 400.

Subtract to see if your estimate is reasonable.

$$\begin{array}{r} 782 \\ - 309 \\ \hline 473 \end{array}$$

473 is close to the estimate of 500 so the estimate is reasonable.

4. **Estimate** how many pounds: The adult male lion weighs **about 60** more pounds than the female. (nearest ten)

How did you find your estimate?

332 is closer to 330 than 340.

265 is rounded to 270. See below.

Rounding Rules

If the number you are rounding is followed by 5, 6, 7, 8, or 9, round the number up.

If the number you are rounding is followed by 0, 1, 2, 3, or 4, round the number down.

Subtract to see if your estimate is reasonable.

$$\begin{array}{r} 332 \\ - 265 \\ \hline 67 \end{array}$$

67 is close to the estimate of 60 so the estimate is reasonable.

5. **Estimate** how many pounds: The pet store sold **about 40** more pounds of cat food in the first week. (nearest ten)

How did you find your estimate?

172 is closer to 170 than 180.

125 is rounded to 130.

Subtract to see if your estimate is reasonable.

$$\begin{array}{r} 172 \\ - 125 \\ \hline 47 \end{array}$$

47 is close to the estimate of 40 so the estimate is reasonable.