Chapter 10

School-Home Letter

Vocabulary

A.M. The times after midnight and before noon

elapsed time The amount of time that passes from the start of an activity to the end of the activity

P.M. The times after noon and before midnight

Dear Family,

During the next few weeks, our math class will be learning about measurement. We will learn to measure time, length, liquid volume, and mass.

You can expect to see homework that provides practice with telling time, finding elapsed time, and solving problems with measurement.

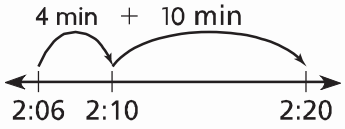
Here is a sample of how your child will be taught to find elapsed time.

MODEL Find Elapsed Time

This is one way we will be learning to find elapsed time.
Start time: 2:06 P.M. End time: 2:20 P.M.

STEP 1

Find the starting time on a the number line. Count on to the ending time, 2:20.



STEP 2

Add the minutes.

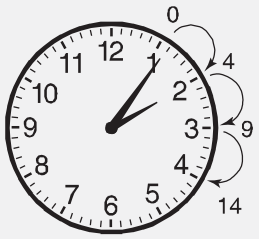
$4 + 10 = 14$

So, the elapsed time is 14 minutes.

Tips

Another Way to Find Elapsed Time

Another way to find the elapsed time is to use an analog clock.



Activity

Have your child practice telling time and finding elapsed time. Ask questions such as, "Soccer practice starts at 3:30 P.M. It ends at 4:20 P.M. How many minutes does it last?"

Capítulo 10

Carta para la casa

Querida familia,

Durante las próximas semanas, en la clase de matemáticas aprenderemos sobre mediciones. Aprenderemos a medir el tiempo, la longitud, el volumen de los líquidos y la masa.

Llevaré a la casa tareas con actividades que incluyen decir la hora, hallar el tiempo transcurrido, y resolver problemas con mediciones.

Este es un ejemplo de la manera como aprenderemos a hallar el tiempo transcurrido.

Vocabulario

A.M. El tiempo después de la media noche y antes del medio día

tiempo transcurrido El periodo de tiempo que transcurre desde el inicio hasta el final de una actividad

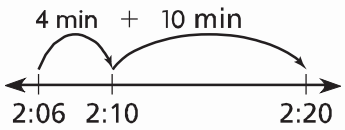
P.M. El tiempo después del medio día y antes de la media noche

MODELO Hallar el tiempo transcurrido

Esta es una manera de hallar el tiempo transcurrido.
Hora de inicio: 2:06 P.M. Final: 2:20 P.M.

PASO 1

Halla en una recta numérica la hora de inicio. Cuenta hacia adelante hasta llegar a la hora final, 2:20.



PASO 2

Suma los minutos.

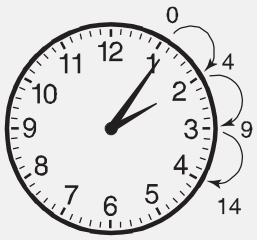
$4 + 10 = 14$

Por tanto, el tiempo transcurrido es 14 minutos.

Pistas

Otra manera de hallar el tiempo transcurrido

Otra manera de hallar el tiempo transcurrido es usar un reloj analógico.



Actividad

Pida a su hijo o hija que practique cómo decir la hora y hallar el tiempo transcurrido. Usen las actividades familiares o las actividades programadas para practicar el tiempo transcurrido. Por ejemplo, "El entrenamiento de fútbol empieza a las 3:30 P.M. y termina a las 4:20 P.M. ¿Cuántos minutos dura?"

Name _____

Time to the Minute

COMMON CORE STANDARD CC.3.MD.1

Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

Possible answers are given.

Write the time. Write one way you can read the time.

1. 

1:16; sixteen minutes after one

2. 

10:20; twenty minutes after ten

3. 

4:13; thirteen minutes after four

4. 

12:05; five minutes after twelve

5. 

7:24; twenty-four minutes after seven

6. 

2:51; nine minutes before three

Write the time another way. **Possible answers are given.**

7. 23 minutes after 4

4:23

8. 18 minutes before 11

10:42

9. 10 minutes before 9

8:50

10. 7 minutes after 1

1:07

Problem Solving REAL WORLD

11. What time is it when the hour hand is a little past the 3 and the minute hand is pointing to the 3?

3:15

12. Pete began practicing at twenty-five minutes before eight. What is another way to write this time?

7:35

Lesson Check (CC.3.MD.1)

1. Which is another way to write 13 minutes before 10?

- ● 9:47
- Ⓑ 10:13
- Ⓒ 10:47
- Ⓓ 11:13

2. What time does the clock show?

- ● 2:20
- Ⓑ 2:40
- Ⓒ 3:20
- Ⓓ 4:10

Spiral Review (CC.3.OA.1, CC.3.OA.2, CC.3.OA.4, CC.3.OA.6)

3. Each bird has 2 wings. How many wings will 5 birds have? (Lesson 3.1)

- Ⓐ 7
- Ⓑ 8
- Ⓒ 9
- ● 10

4. Find the unknown factor. (Lesson 5.2)

$9 \times \square = 36$

- ● 4
- Ⓑ 6
- Ⓒ 8
- Ⓓ 27

5. Mr. Wren has 56 paintbrushes. He places 8 paintbrushes on each of the tables in the art room. How many tables are in the art room? (Lesson 6.3)

- Ⓐ 6
- ● 7
- Ⓒ 9
- Ⓓ 48

6. Which number completes the equations? (Lesson 6.7)

$4 \times \blacktriangle = 20 \quad 20 \div 4 = \blacktriangle$

- Ⓐ 4
- ● 5
- Ⓒ 6
- Ⓓ 16

Name _____

A.M. and P.M.

COMMON CORE STANDARD CC.3.MD.1

Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

Write the time for the activity. Use A.M. or P.M.

1. eat lunch

12:20 P.M.

2. go home after school

2:53 P.M.

3. see the sunrise

6:18 A.M.

4. go for a walk

3:55 P.M.

5. go to school

8:10 A.M.

6. get ready for art class

10:36 A.M.

Write the time. Use A.M. or P.M.

7. 13 minutes after 5:00 in the morning

5:13 A.M.

8. 19 minutes before 9:00 at night

8:41 P.M.

9. quarter before midnight

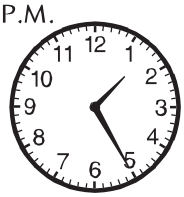
11:45 P.M.

10. one-half hour after 4:00 in the morning

4:30 A.M.

Problem Solving REAL WORLD

11. Jaime is in math class. What time is it? Use A.M. or P.M.



1:25 P.M.

12. Pete began practicing his trumpet at fifteen minutes past three. Write this time using A.M. or P.M.

3:15 P.M.

Lesson Check (CC.3.MD.1)

1. Steven is doing his homework. What time is it? Use A.M. or P.M.

Ⓐ 4:15 P.M.
Ⓑ 4:25 A.M.
● 4:35 P.M.
Ⓓ 4:35 A.M.

2. After he finished breakfast, Mr. Edwards left for work at fifteen minutes after seven. What time is this? Use A.M. or P.M.

Ⓐ 6:15 A.M.
● 7:15 A.M.
Ⓒ 6:45 P.M.
Ⓓ 7:30 P.M.

Spiral Review (CC.3.OA.6, CC.3.NBT.2, CC.3.NBT.3, CC.3.NF.3d)

3. Which division equation is related to the multiplication equation $4 \times 6 = 24$? (Lesson 6.7)

Ⓐ $24 \div 8 = 3$
Ⓑ $12 \div 3 = 4$
Ⓒ $6 \times 4 = 24$
● $24 \div 4 = 6$

4. There are 50 toothpicks in each box. Jaime buys 4 boxes for her party platter. How many toothpicks does Jaime buy in all? (Lesson 5.4)

Ⓐ 20
Ⓑ 54
● 200
Ⓓ 2,000

5. A pet store sold 145 bags of beef-flavored dog food and 263 bags of cheese-flavored dog food. How many bags of dog food were sold in all? (Lesson 1.6)

Ⓐ 118
Ⓑ 308
● 408
Ⓓ 422

6. Victoria and Melody are comparing fraction strips. Which statement is NOT correct? (Lesson 9.2)

Ⓐ $\frac{1}{4} < \frac{4}{4}$
● $\frac{3}{6} > \frac{4}{6}$
Ⓒ $\frac{2}{8} > \frac{1}{8}$
Ⓓ $\frac{2}{3} < \frac{3}{3}$

Name _____

Measure Time Intervals

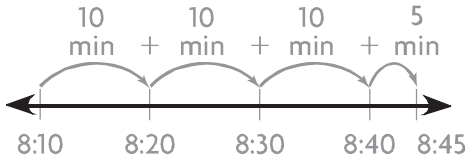
COMMON CORE STANDARD CC.3.MD.1

Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

Possible drawings and labels are given.

Find the elapsed time.

1. Start: 8:10 A.M. End: 8:45 A.M.

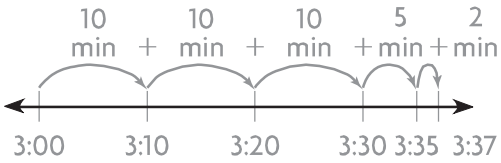


35 minutes

2. Start: 6:45 P.M. End: 6:54 P.M.

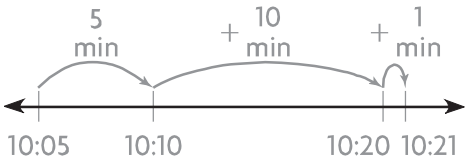
9 minutes

3. Start: 3:00 P.M. End: 3:37 P.M.



37 minutes

4. Start: 10:05 A.M. End: 10:21 A.M.



16 minutes

5. Start: 7:30 A.M. End: 7:53 A.M.

23 minutes

6. Start: 5:20 A.M. End: 5:47 A.M.

27 minutes

Problem Solving REAL WORLD

7. A show at the museum starts at 7:40 P.M. and ends at 7:57 P.M. How long is the show?

17 minutes

8. The first train leaves the station at 6:15 A.M. The second train leaves at 6:55 A.M. How much later does the second train leave the station?

40 minutes later

Lesson Check (CC.3.MD.1)

1. Marcus began playing basketball at 3:30 P.M. and stopped playing at 3:55 P.M. For how many minutes did he play basketball?

- ● 25 minutes
- Ⓑ 30 minutes
- Ⓒ 55 minutes
- Ⓓ 85 minutes

2. The school play started at 8:15 P.M. and ended at 8:56 P.M. How long was the school play?

- Ⓐ 15 minutes
- Ⓑ 31 minutes
- ● 41 minutes
- Ⓓ 56 minutes

Spiral Review (CC.3.OA.1, CC.3.OA.6, CC.3.NBT.2, CC.3.NBT.3)

3. Each car has 4 wheels. How many wheels will 7 cars have? (Lesson 3.1)

- Ⓐ 11
- Ⓑ 24
- Ⓒ 27
- ● 28

4. Which number completes the equations? (Lesson 6.7)

$3 \times \square = 27$ $27 \div 3 = \square$

- Ⓐ 6
- Ⓑ 7
- Ⓒ 8
- ● 9

5. There are 20 napkins in each package. Kelli bought 8 packages for her party. How many napkins did Kelli buy in all? (Lesson 5.4)

- Ⓐ 28
- Ⓑ 40
- ● 160
- Ⓓ 180

6. Mr. Martin drove 290 miles last week. This week he drove 125 miles more than last week. How many miles did Mr. Martin drive this week? (Lesson 1.7)

- Ⓐ 125 miles
- Ⓑ 165 miles
- Ⓒ 315 miles
- ● 415 miles

Name _____

Use Time Intervals

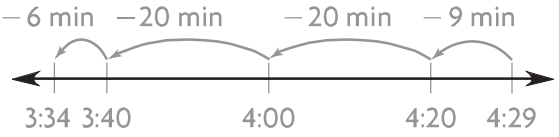
COMMON CORE STANDARD CC.3.MD.1

Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

Possible drawing and labels are given.

Find the starting time.

1. Ending time: 4:29 P.M.
   Elapsed time: 55 minutes



3:34 P.M.

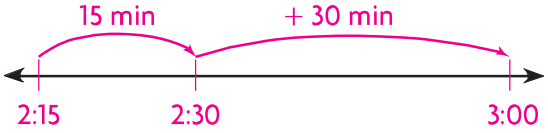
2. Ending time: 10:08 A.M.
   Elapsed time: 30 minutes

9:38 A.M.

Possible drawing and labels are given.

Find the ending time.

3. Starting time: 2:15 A.M.
   Elapsed time: 45 minutes



3:00 A.M.

4. Starting time: 6:57 P.M.
   Elapsed time: 47 minutes

7:44 P.M.

Problem Solving REAL WORLD

5. Jenny spent 35 minutes doing research on the Internet. She finished at 7:10 P.M. At what time did Jenny start her research?

6:35 P.M.

6. Clark left for school at 7:43 A.M. He got to school 36 minutes later. At what time did Clark get to school?

8:19 A.M.

Lesson Check (CC.3.MD.1)

1. Cody and his friends started playing a game at 6:30 P.M. It took them 37 minutes to finish the game. At what time did they finish?

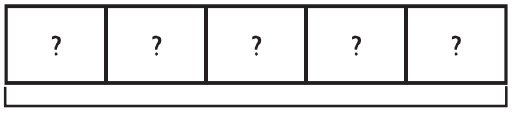
Ⓐ 5:07 P.M.
Ⓒ 6:53 P.M.
Ⓑ 5:53 P.M.
● 7:07 P.M.

2. Delia worked for 45 minutes on her oil painting. She took a break at 10:35 A.M. At what time did Delia start working on the painting?

Ⓐ 9:40 A.M.
Ⓒ 11:20 A.M.
● 9:50 A.M.
Ⓓ 11:30 A.M.

Spiral Review (CC.3.OA.2, CC.3.OA.7, CC.3.MD.1)

3. Sierra has 30 collector's pins. She wants to put an equal number of pins in each of 5 boxes. How many pins should she put in each box? (Lesson 6.4)



30 pins

Ⓐ 4
● 6
Ⓑ 5
Ⓓ 8

4. What time is shown on the clock? (Lesson 10.1)

Ⓐ 1:24
Ⓒ 4:12
● 2:24
Ⓓ 5:12

5. Ricardo has 32 books to put on 4 shelves. He puts the same number of books on each shelf. How many books does Ricardo put on each shelf? (Lesson 7.5)

Ⓐ 6
● 8
Ⓑ 7
Ⓓ 9

6. Jon started playing a computer game at 5:35 P.M. He finished the game at 5:52 P.M. How long did Jon play the game? (Lesson 10.3)

● 17 minutes
Ⓒ 25 minutes
Ⓑ 23 minutes
Ⓓ 27 minutes

Name _____

Problem Solving • Time Intervals

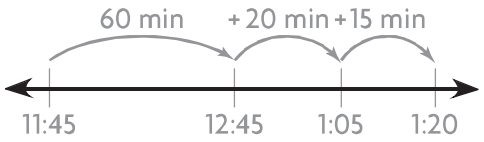
PROBLEM SOLVING
Lesson 10.5

COMMON CORE STANDARD CC.3.MD.1

Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

Solve each problem. Show your work. Check students' work.

1. Hannah wants to meet her friends downtown. Before leaving home, she does chores for 60 minutes and eats lunch for 20 minutes. The walk downtown takes 15 minutes. Hannah starts her chores at 11:45 A.M. At what time does she meet her friends?



1:20 P.M.

2. Katie practiced the flute for 45 minutes. Then she ate a snack for 15 minutes. Next, she watched television for 30 minutes, until 6:00 P.M. At what time did Katie start practicing the flute?

4:30 P.M.

3. Nick gets out of school at 2:25 P.M. He has a 15-minute ride home on the bus. Next, he goes on a 30-minute bike ride. Then he spends 55 minutes doing homework. At what time does Nick finish his homework?

4:05 P.M.

4. The third-grade class is going on a field trip by bus to the museum. The bus leaves the school at 9:45 A.M. The bus ride takes 47 minutes. At what time does the bus arrive at the museum?

10:32 A.M.

Lesson Check (CC.3.MD.1)

1. Gloria went to the mall and spent 50 minutes shopping. Then she had lunch for 30 minutes. If Gloria arrived at the mall at 11:00 A.M., at what time did she finish lunch?

Ⓐ 11:30 A.M.
Ⓑ 11:50 A.M.
● 12:20 P.M.
Ⓓ 12:30 P.M.

2. The ball game begins at 2:00 P.M. It takes Ying 30 minutes to get to the ballpark. At what time should Ying leave home to get to the game 30 minutes before it starts?

Ⓐ 12:30 P.M.
● 1:00 P.M.
Ⓒ 1:30 P.M.
Ⓓ 3:00 P.M.

Spiral Review (CC.3.OA.2, CC.3.OA.4, CC.3.NBT.2, CC.3.NF.3d)

3. Which lists the fractions in order from least to greatest? (Lesson 9.5)

Ⓐ $\frac{2}{8}, \frac{2}{4}, \frac{2}{6}$
Ⓑ $\frac{2}{4}, \frac{2}{8}, \frac{2}{6}$
● $\frac{2}{8}, \frac{2}{6}, \frac{2}{4}$
Ⓓ $\frac{2}{4}, \frac{2}{6}, \frac{2}{8}$

4. Find the unknown factor. (Lesson 5.2)

$6 \times \square = 36$

Ⓐ 4
● 6
Ⓒ 7
Ⓓ 8

5. There were 405 books on the library shelf. Some books were checked out. Now there are 215 books left on the shelf. How many books were checked out? (Lesson 1.10)

Ⓐ 620
Ⓑ 220
Ⓒ 210
● 190

6. Savannah has 48 photos. She places 8 photos on each page of her photo album. How many pages in the album does she use? (Lesson 6.3)

Ⓐ 5
● 6
Ⓒ 7
Ⓓ 9

Name _____

Measure Length

COMMON CORE STANDARD CC.3.MD.4

Represent and interpret data.

Measure the length to the nearest half inch.

1. 

$1\frac{1}{2}$ inches

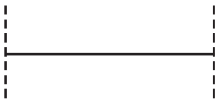
2. 

3 inches

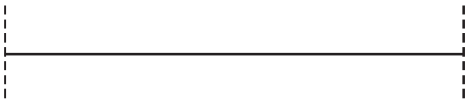
3. 

$4\frac{1}{2}$ inches

Measure the length to the nearest fourth inch.

4. 

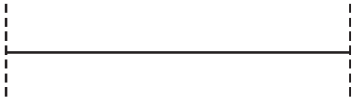
$1\frac{1}{4}$ inches

5. 

$2\frac{3}{4}$ inches

6. 

$\frac{3}{4}$ inch

7. 

2 inches

Problem Solving REAL WORLD

Use a separate sheet of paper for 8.

8. Draw 8 lines that are between 1 inch and 3 inches long. Measure each line to the nearest fourth inch, and make a line plot.

Check students' drawings, measurements, and line plots.

9. The tail on Alex's dog is $5\frac{1}{4}$ inches long. This length is between which two inch-marks on a ruler?

between 5 and 6 inches

Lesson Check (CC.3.MD.4)

1. What is the length of the eraser to the nearest half inch?

Ⓐ $\frac{1}{2}$ inch
● $1\frac{1}{2}$ inches
Ⓑ 1 inch
Ⓓ 2 inches

2. What is the length of the leaf to the nearest fourth inch?

Ⓐ $1\frac{1}{2}$ inches
● 2 inches
Ⓑ $1\frac{3}{4}$ inches
Ⓓ $2\frac{1}{4}$ inches

Spiral Review (CC.3.OA.7, CC.3.MD.1)

3. Which equation is NOT included in the same set of related facts as $6 \times 8 = 48$? (Lesson 6.8)

Ⓐ $8 \times 6 = 48$
● $8 \times 8 = 64$
Ⓒ $48 \div 6 = 8$
Ⓓ $48 \div 8 = 6$

4. Brooke says there are 49 days until July 4. There are 7 days in a week. In how many weeks will it be July 4? (Lesson 7.7)

Ⓐ 9 weeks
Ⓑ 8 weeks
● 7 weeks
Ⓓ 6 weeks

5. It is 20 minutes before 8:00 in the morning. Which is the correct way to write that time? (Lesson 10.2)

● 7:40 A.M.
Ⓑ 7:40 P.M.
Ⓒ 8:20 A.M.
Ⓓ 8:40 A.M.

6. Marcy played the piano for 45 minutes. She stopped playing at 4:15 P.M. At what time did she start playing the piano? (Lesson 10.4)

Ⓐ 3:00 P.M.
● 3:30 P.M.
Ⓒ 4:45 P.M.
Ⓓ 5:00 P.M.

Name _____

Estimate and Measure Liquid Volume

COMMON CORE STANDARD CC.3.MD.2
Solve problems involving measurement and estimation of intervals of time, liquid measures, and masses of objects.

Estimate how much liquid volume there will be when the container is filled. Write *more than 1 liter, about 1 liter,* or *less than 1 liter*.

1. large milk container

more than 1 liter

2. small milk container

less than 1 liter

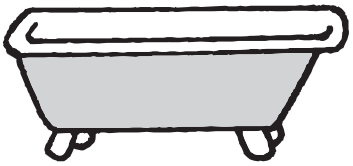
3. water bottle

about 1 liter

4. spoonful of water

less than 1 liter

5. bathtub filled halfway



more than 1 liter

6. filled eyedropper

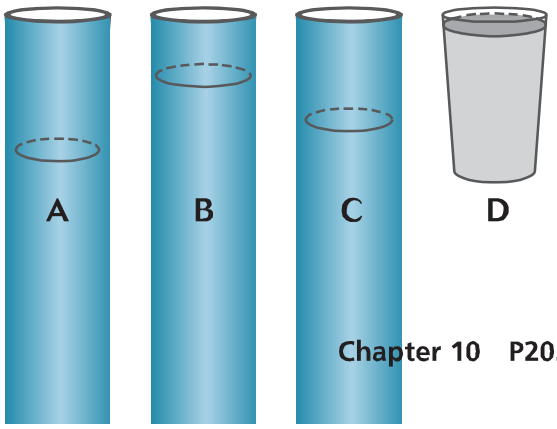
less than 1 liter

Problem Solving REAL WORLD

Use the pictures for 7–8. Alan pours water into four glasses that are the same size.

7. Which glass has the most amount of water? Glass D

8. Which glass has the least amount of water? Glass A



Lesson Check (CC.3.MD.2)

1. Felicia filled the bathroom sink with water. About how much water does she put in the sink?

Ⓐ about 1 liter

● more than 1 liter

Ⓒ a little less than 1 liter

Ⓓ much less than 1 liter

2. Kyle needed about 1 liter of water to fill a container. Which container did Kyle most likely fill?

Ⓐ a small glass

Ⓑ a spoon

Ⓒ a large pail

● a vase

Spiral Review (CC.3.OA.5, CC.3.NF.1, CC.3.MD.1, CC.3.MD.4)

3. Cecil had 6 ice cubes. He put 1 ice cube in each glass. In how many glasses did Cecil put ice cubes? (Lesson 6.9)

● 6

Ⓑ 5

Ⓒ 1

Ⓓ 0

4. Juan has 12 muffins. He puts $\frac{1}{4}$ of the muffins in a bag. How many muffins does Juan put in the bag? (Lesson 8.8)

Ⓐ 2

● 3

Ⓒ 4

Ⓓ 5

5. Which is one way to read the time shown on the clock? (Lesson 10.1)

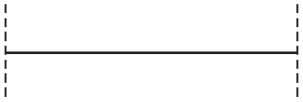
● 4 minutes before 7

Ⓑ 26 minutes before 11

Ⓒ 54 minutes after 6

Ⓓ 56 minutes after 7

6. Julianne drew the line segment below. Use your ruler to measure the segment to the nearest fourth inch. (Lesson 10.6)



Ⓐ $\frac{3}{4}$ inch

Ⓑ $1\frac{1}{4}$ inches

Ⓒ $1\frac{1}{2}$ inches

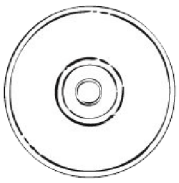
● $1\frac{3}{4}$ inches

Name _____

Estimate and Measure Mass

COMMON CORE STANDARD CC.3.MD.2
Solve problems involving measurement and intervals of time, liquid volumes, and masses of objects.

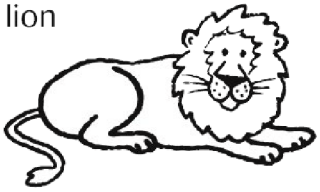
Choose the unit you would use to measure the mass. Write *gram* or *kilogram*.

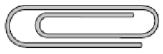
1. CD 
gram

2. boy 
kilogram

3. bag of sugar 

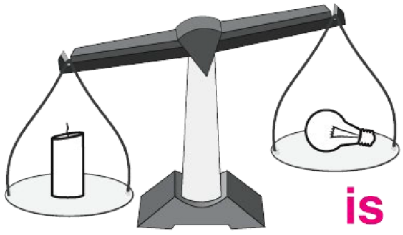
kilogram

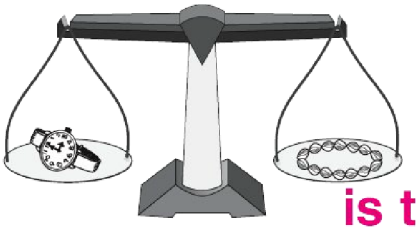
4. lion 
kilogram

5. paper clip 
gram

6. empty plastic bottle 
gram

Compare the masses of the objects. Write *is less than*, *is the same as*, or *is more than*.

7. 
The mass of the candle **is more than** the mass of the light bulb.

8. 
The mass of the watch **is the same as** the mass of the necklace.

Problem Solving REAL WORLD

9. A red ball has a mass that is less than 1 kilogram. A blue ball has a mass of 1 kilogram. Is the mass of the blue ball more than or less than the mass of the red ball?
more than

10. Brock's dog is a collie. To find the mass of his dog, should Brock use *grams* or *kilograms*?
kilograms

Lesson Check (CC.3.MD.2)

1. Which unit of measure would you use to measure the mass of a grape?

● gram
Ⓒ kilogram
Ⓑ inch
Ⓓ meter

2. Elsie wants to find the mass of her pony. Which unit should she use?

Ⓐ gram
● kilogram
Ⓑ liter
Ⓓ centimeter

Spiral Review (CC.3.OA.2, CC.3.OA.8, CC.3.MD.2)

3. Marsie blew up 24 balloons. She tied the balloons together in groups of 4. How many groups did Marsie make? (Lesson 6.3)

Ⓐ 5
Ⓒ 7
● 6
Ⓓ 8

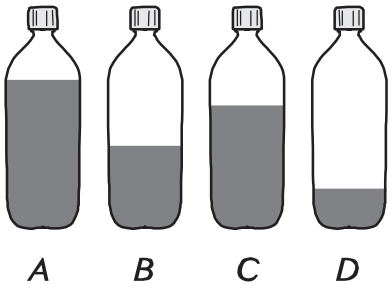
4. Clark used the order of operations to find the unknown number in $15 - 12 \div 3 = n$. What is the value of the unknown number? (Lesson 7.11)

Ⓐ 1
Ⓒ 9
Ⓑ 6
● 11

Use the pictures for 5–6. Ralph pours juice into four bottles that are the same size.

5. Which bottle has the most amount of juice? (Lesson 10.7)

● Bottle *A*
Ⓒ Bottle *C*
Ⓑ Bottle *B*
Ⓓ Bottle *D*



6. Which bottle has the least amount of juice? (Lesson 10.7)

Ⓐ Bottle *A*
Ⓒ Bottle *C*
Ⓑ Bottle *B*
● Bottle *D*

Name _____

Solve Problems About Liquid Volume and Mass

COMMON CORE STANDARD CC.3.MD.2

Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

Write an equation and solve the problem.

1. Luis was served 145 grams of meat and 217 grams of vegetables at a meal. What was the total mass of the meat and the vegetables?

   Think: Add to find how much in all.

   145 ⊕ 217 = 362 362 grams

2. The gas tank of a riding mower holds 5 liters of gas. How many 5-liter gas tanks can you fill from a full 20-liter gas can?

   20 ÷ 5 = 4 4 gas tanks

3. To make a lemon-lime drink, Mac mixed 4 liters of lemonade with 2 liters of limeade. How much lemon-lime drink did Mac make?

   4 ⊕ 2 = 6 6 liters

4. A nickel has a mass of 5 grams. There are 40 nickels in a roll of nickels. What is the mass of a roll of nickels?

   5 ⊗ 40 = 200 200 grams

5. Four families share a basket of 16 kilograms of apples equally. How many kilograms of apples does each family get?

   16 ÷ 4 = 4 4 kilograms

6. For a party, Julia made 12 liters of fruit punch. There were 3 liters of fruit punch left after the party. How much fruit punch did the people drink at the party?

   12 − 3 = 9 9 liters

Problem Solving REAL WORLD

7. Zoe's fish tank holds 27 liters of water. She uses a 3-liter container to fill the tank. How many times does she have to fill the 3-liter container in order to fill her fish tank?

   9 times

8. Adrian's backpack has a mass of 15 kilograms. Theresa's backpack has a mass of 8 kilograms. What is the total mass of both backpacks?

   23 kilograms

Lesson Check (CC.3.MD.2)

1. Mickey's beagle has a mass of 15 kilograms. His dachshund has a mass of 13 kilograms. What is the combined mass of the two dogs?

Ⓐ 2 kilograms Ⓒ 23 kilograms
Ⓑ 18 kilograms ● 28 kilograms

2. Lois put 8 liters of water in a bucket for her pony. At the end of the day, there were 2 liters of water left. How much water did the pony drink?

Ⓐ 4 liters Ⓒ 10 liters
● 6 liters Ⓓ 16 liters

Spiral Review (CC.3.OA.8, CC.3.NF.3d, CC.3.MD.1, CC.3.MD.2)

3. Josiah has 3 packs of toy animals. Each pack has the same number of animals. Josiah gives 6 animals to his sister Stephanie. Then Josiah has 9 animals left. How many animals were in each pack? (Lesson 7.10)

Ⓐ 1 ● 5
Ⓑ 3 Ⓓ 6

4. Tom jogged $\frac{3}{10}$ mile, Betsy jogged $\frac{5}{10}$ mile, and Sue jogged $\frac{2}{10}$ mile. Who jogged a longer distance than $\frac{4}{10}$ mile? (Lesson 9.5)

● Betsy
Ⓑ Sue
Ⓒ Tom
Ⓓ None

5. Bob started mowing at 9:55 A.M. It took him 25 minutes to mow the front yard and 45 minutes to mow the back yard. At what time did Bob finish mowing? (Lesson 10.5)

Ⓐ 10:20 A.M. ● 11:05 A.M.
Ⓑ 10:55 A.M. Ⓓ 11:20 A.M.

6. Juliana wants to find the mass of a watermelon. Which unit should she use? (Lesson 10.8)

Ⓐ gram Ⓒ liter
● kilogram Ⓓ meter

COMMON CORE STANDARDS CC.3.MD.1, CC.3.MD.2, CC.3.MD.4

Name _____

Chapter 10 Extra Practice

Lessons 10.1 - 10.2

Possible answers are given.

Write the time. Write one way you can read the time.

1. 

6:20; twenty minutes after six

2. 

9:42; eighteen minutes before ten

3. 

12:17; seventeen minutes past noon

Write the time. Use A.M. or P.M.

1. 30 minutes past noon

12:30 P.M.

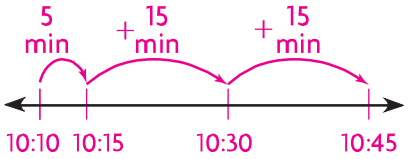
2. 14 minutes before 7:00 in the morning

6:46 A.M.

Lesson 10.3

Find the elapsed time. **Possible drawing and labels are given.**

1. Start: 10:10 P.M. End: 10:45 P.M.



35 minutes

2. Start: 7:05 A.M. End: 7:33 A.M.

28 minutes

Lessons 10.4 - 10.5

1. Delia spent 45 minutes working on her book report. She finished the report at 6:10 P.M. At what time did Delia start working on her report?

5:25 P.M.

2. Lucas leaves school at 3:05 P.M. The bus ride home takes 25 minutes. Then it takes Lucas 15 minutes to ride his bike to soccer practice. At what time does Lucas get to soccer practice?

3:45 P.M.

Lesson 10.6

Measure the length to the nearest half inch.

1. 

$1\frac{1}{2}$ inches

2. 

3 inches

Measure the length to the nearest fourth inch.

3. 

$4\frac{3}{4}$ inches

Lesson 10.7

Estimate how much liquid volume there will be when the container is filled. Write *more than 1 liter*, *about 1 liter*, or *less than 1 liter*.

1. mug 

less than 1 liter

2. watering can 

more than 1 liter

3. sports bottle 

about 1 liter

Lesson 10.8

Choose the unit you would use to measure the mass. Write *gram* or *kilogram*.

1. pen 

gram

2. bag of flour 

kilogram

3. brick 

kilogram

Lesson 10.9

Write an equation and solve the problem.

1. Miles ate two hot dogs with buns. Each hot dog has a mass of 45 grams, and each hot dog bun has a mass of 33 grams. How many grams of hot dogs and buns did Miles eat in all?

$45 + 45 + 33 + 33 = 156$; 156 grams

2. Celia's famous raspberry limeade comes in 3-liter containers. Celia gets an order for 8 containers of raspberry limeade. How many liters of raspberry limeade were ordered?

$8 \times 3 = 24$; 24 liters