Lesson 10.1

Customary Length

COMMON CORE STANDARD CC.5.MD.1

Convert like measurement units within a given measurement system.

Convert.

2.
$$5 \text{ ft} = \frac{60}{1000} \text{ in.}$$

3.
$$5 \text{ mi} = \frac{26,400}{100} \text{ ft}$$

4.
$$240 \text{ in.} = 20 \text{ ft}$$
 5. $100 \text{ yd} = 300 \text{ ft}$ 6. $10 \text{ ft} = 120 \text{ in.}$

6.
$$10 \text{ ft} = 120 \text{ in}$$

7.
$$150 \text{ in.} = 12 \text{ ft } 6 \text{ in.}$$
 8. $7 \text{ yd } 2 \text{ ft } = 23 \text{ ft}$ 9. $10 \text{ mi} = 52,800 \text{ ft}$

9.
$$10 \text{ mi} = 52,800 \text{ f}$$

Compare. Write <, >, or =.

Problem Solving REAL WORLD



- **16.** Marita orders 12 yards of material to make banners. If she needs 1 foot of fabric for each banner, how many banners can she make?
- **17.** Christy bought an 8-foot piece of lumber to trim a bookshelf. Altogether, she needs 100 inches of lumber for the trim. Did Christy buy enough lumber? Explain.

36 banners

No. She bought only 96 inches of trim.

Lesson Check (CC.5.MD.1)

- 1. Jenna's garden is 5 yards long. How long is her garden in feet?
 - (A) 60 feet
 - 15 feet
 - © 8 feet
 - 2 feet

- 2. Ellen needs to buy 180 inches of ribbon to wrap a large present. The store sells ribbon only in whole yards. How many yards does Ellen need to buy to have enough ribbon?
 - A 3 yards
 - (B) 4 yards
 - 5 yards
 - **D** 6 yards

Spiral Review (CC.5.OA.3, CC.5.NBT.6, CC.5.NF.4a)

- 3. McKenzie works for a catering company. She is making iced tea for an upcoming event. For each container of tea, she uses 16 tea bags and 3 cups of sugar. If McKenzie uses 64 tea bags, how many cups of sugar will she use? (Lesson 9.6)
 - \bigcirc $\frac{3}{4}$ cup
 - **(B)** 4 cups
 - 8 cups
 - 12 cups
- **5.** Which is the quotient of 396 divided by 12? (Lesson 2.6)
 - **(A)** 31
 - 33
 - **(C)** 36
 - **(D)** 38

- **4.** Javier bought 48 sports cards at a yard sale. Of the cards, $\frac{3}{8}$ were baseball cards. How many cards were baseball cards? (Lesson 7.1)
 - **(A)** 48
 - 18
 - **©** 6
 - **D** 3
- 6. What is the unknown number in Sequence 2 in the chart? What rule can you write that relates Sequence 2 to Sequence 1? (Lesson 9.5)

Sequence Number	1	2	3	8	10
Sequence 1	4	8	12	32	40
Sequence 2	8	16	24	64	?

- \bigcirc 40; Multiply by 1.
- **B** 60; Add 20.
- 80; Multiply by 2.
- **(D)** 20; Divide by 2.

Name ___

Customary Capacity

COMMON CORE STANDARD CC.5.MD.1

Convert like measurement units within a given

Convert.

1. 5 gal =
$$\frac{40}{1}$$
 pt

2.
$$192 \text{ fl oz} = \frac{12}{12} \text{ pt}$$

3.
$$15 \text{ pt} = \frac{30}{2} \text{ c}$$

measurement system.

4.
$$240 \text{ fl oz} = \frac{30}{20} \text{ c}$$

5.
$$32 \text{ gt} = \frac{8}{2} \text{ gal}$$

6.
$$10 \text{ qt} = \frac{40}{} \text{ c}$$

7.
$$48 c = 12$$
 qt

Compare. Write <, >, or =.

10. 17 qt
$$>$$
 4 gal **11.** 96 fl oz $<$ 8 pt **12.** 400 pt $<$ 100 gal

13. 100 fl oz
$$\bigcirc$$
 16 pt **14.** 74 fl oz \bigcirc 8 c **15.** 12 c \bigcirc 3 qt

14. 74 fl oz
$$>$$
 8 c

Problem Solving REAL WORLD



16. Vickie made a recipe for 144 fluid ounces of scented candle wax. How many 1-cup candle molds can she fill with the recipe?

18 candle molds

17. A recipe calls for 32 fluid ounces of heavy cream. How many 1-pint containers of heavy cream are needed to make the recipe?

2 pints

Lesson Check (CC.5.MD.1)

- 1. Rosa made 12 gallons of lemonade to sell at a lemonade stand. How many pints of lemonade did she make?
 - 96 pints
 - **(B)** 48 pints
 - © 3 pints
 - \bigcirc $1\frac{1}{2}$ pints

- **2.** Ebonae's fish tank holds 40 gallons. How many quarts does the fish tank hold?
 - (A) 4 quarts
 - (B) 10 quarts
 - © 80 quarts
 - 160 quarts

Spiral Review (CC.5.NBT.5, CC.5.NE1, CC.5.NE3, CC.5.MD.1)

- 3. A mountain climber climbed 15,840 feet on her way to the summit of a mountain. How many miles did she climb? (Lesson 10.1)
 - (A) 1 mile
 - (B) 2 miles
 - 3 miles
 - (D) 4 miles

- **4.** Jamal is making pancakes. He has $6\frac{3}{4}$ cups of batter, but he needs a total of 12 cups. How much more batter does Jamal need? (Lesson 6.6)
 - $5\frac{1}{4}$ cups
 - **B** $5\frac{3}{4}$ cups
 - \bigcirc $6\frac{1}{4}$ cups
 - **(D)** $18\frac{3}{4}$ cups
- 5. At a building site, there are 16 pallets with sacks of cement. The total weight of all the pallets and cement is 4,856 pounds. Each pallet with cement weighs the same amount. How much does each pallet with cement weigh? (Lesson 2.7)
 - A 304 pounds
 - $\frac{1}{2}$ 303 $\frac{1}{2}$ pounds
 - **(C)** 303 pounds
 - **(D)** 300 pounds

- **6.** A publisher shipped 15 boxes of books to a bookstore. Each box contained 32 books. How many books in all did the publisher ship to the bookstore? (Lesson 1.7)
 - **(A)** 560
 - **480**
 - **(C)** 400
 - **(D)** 320

Name _

Lesson 10.3

Weight

COMMON CORE STANDARD CC.5.MD.1

Convert like measurement units within a given measurement system.

Convert.

1.
$$96 \text{ oz} = 6$$
 lb 2. $6 \text{ T} = 12,000 \text{ lb}$

4.
$$3,200 \text{ oz} = 200 \text{ lb}$$
 5. $12 \text{ T} = 24,000 \text{ lb}$ 6. $9 \text{ lb} = 144 \text{ oz}$

7.
$$7 lb = _{0}$$
 oz

$$_{8.\ 100\ lb} = 1,600$$

7.
$$7 \text{ lb} = 112 \text{ oz}$$
 8. $100 \text{ lb} = 1,600 \text{ oz}$ 9. $60,000 \text{ lb} = 30 \text{ T}$

Compare. Write <, >, or =.

10. 40 oz
$$\bigcirc$$
 4 lb **11.** 80 oz \bigcirc 5 lb **12.** 5,000 lb \bigcirc 5 T

Problem Solving REAL WORLD



- 16. Mr. Fields ordered 3 tons of gravel for a driveway at a factory. How many pounds of gravel did he order?
- 17. Sara can take no more than 22 pounds of luggage on a trip. Her suitcase weighs 112 ounces. How many more pounds can she pack without going over the limit?

6,000 pounds

15 pounds

Lesson Check (CC.5.MD.1)

- **1.** Paolo's puppy weighed 11 pounds at the vet's office. What is this weight in ounces?
 - (A) 16 ounces
 - (B) 32 ounces
 - **(C)** 166 ounces
 - 176 ounces

- **2.** The weight limit on a bridge is 5 tons. What is this weight in pounds?
 - (A) 80 pounds
 - **B** 5,000 pounds
 - 10,000 pounds
 - **(D)** 20,000 pounds

Spiral Review (CC.5.NF.2, CC.5.NF.7c, CC.5.MD.1)

- 3. There are 20 guests at a party. The host has 8 gallons of punch. He estimates that each guest will drink 2 cups of punch. If his estimate is correct, how much punch will be left over at the end of the party? (Lesson 10.2)
 - (A) 16 cups
 - (B) 40 cups
 - 88 cups
 - **(D)** 128 cups

- 4. A typical lap around a track in the United States has a length of 440 yards. How many laps would need to be completed to run a mile? (Lesson 10.1)
 - - 4
 - **B** 12
 - **C**) 40
 - **(D)** 440
- 5. A recipe for sweet potato pie calls for $\frac{3}{4}$ cup of milk. Martina has 6 cups of milk. How many sweet potato pies can she make with that amount of milk? (Lesson 8.4)
 - A) 2
 - **B** 4
 - 8
 - **(D)** 16

- **6.** Which of the following is the best estimate for the total weight of these cold meats: $1\frac{7}{8}$ pounds of bologna, $1\frac{1}{2}$ pounds of ham, and $\frac{7}{8}$ pound of roast beef? (Lesson 6.6)
 - A 3 pounds
 - **B** $3\frac{1}{2}$ pounds
 - C 4 pounds
 - $4\frac{1}{2}$ pounds

Multistep Measurement Problems

COMMON CORE STANDARD CC.5.MD.1

Convert like measurement units within a given measurement system.

Solve.

1. A cable company has 5 miles of cable to install. How many 100-yard lengths of cable can be cut?

Think: 1,760 yards = 1 mile. So the cable company has $5 \times 1,760$, or 8,800 yards of cable.

Divide. $8,800 \div 100 = 88$

88 lengths

3. A jar contains 26 fluid ounces of spaghetti sauce. How many cups of spaghetti sauce do 4 jars contain?

2. Afton made a chicken dish for dinner. She added a 10-ounce package of vegetables and a 14-ounce package of rice to 40 ounces of chicken. What was the total weight of the chicken dish in pounds?

4 pounds

4. Coach Kent brings 3 quarts of sports drink to soccer practice. He gives the same amount of the drink to each of his 16 players. How many ounces of the drink does each player get?

13 cups

5. Leslie needs 324 inches of fringe to put around the edge of a tablecloth. The fringe comes in lengths of 10 yards. If Leslie buys 1 package of fringe, how many feet of fringe will she have left over?

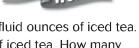
6 ounces

6. Darnell rented a moving truck. The weight of the empty truck was 7,860 pounds. When Darnell filled the truck with his items, it weighed 6 tons. What was the weight in pounds of the items that Darnell placed in the truck?

3 feet

4,140 pounds

Problem Solving REAL WORLD



- 7. A pitcher contains 40 fluid ounces of iced tea. Shelby pours 3 cups of iced tea. How many pints of iced tea are left in the pitcher?
- **8.** Olivia ties 2.5 feet of ribbon onto one balloon. How many yards of ribbon does Olivia need for 18 balloons?

1 pint

15 yards

Lesson Check (CC.5.MD.1)

- 1. Leah is buying curtains for her bedroom window. She wants the curtains to hang from the top of the window to the floor. The window is 4 feet high. The bottom of the window is $2\frac{1}{2}$ feet above the floor. What curtain length should Leah buy?
 - (A) 72 inches
 - 78 inches
 - (C) 84 inches
 - **(D)** 104 inches

- 2. Brady buys 3 gallons of fertilizer for his lawn. After he finishes spraying the lawn, he has 1 quart of fertilizer left over. How many quarts of fertilizer did Brady spray on the lawn?
 - (A) 3 quarts
 - (B) 7 quarts
 - 11 quarts
 - **D** 15 quarts

Spiral Review (CC.5.OA.3, CC.5.MD.1, CC.5.NF.7b)

- **3.** A jump rope is 9 feet long. How long is the jump rope in yards? (Lesson 10.1)
 - \bigcirc $\frac{3}{4}$ yard
 - 3 yards
 - **©** 27 yards
 - **D** 108 yards

- **4.** Which of the following measurements is NOT equal to 8 cups? (Lesson 10.2)
 - 1 gallon
 - **B** 2 quarts
 - C 4 pints
 - (D) 64 fluid ounces
- **5.** What is the unknown number in Sequence 2 in the chart? (Lesson 9.5)

Sequence Number	1	2	3	5	7
Sequence 1	3	6	9	15	21
Sequence 2	6	12	18	30	?

- **(A)** 32
- **B** 35
- **©** 36
- 42

- **6.** A farmer divides 20 acres of land into $\frac{1}{4}$ -acre sections. Into how many sections does the farmer divide her land? (Lesson 8.2)
 - (A)
 - **B** 5
 - **(C)** 16
 - **8**0

Name _

Lesson 10.5

Metric Measures

COMMON CORE STANDARD CC.5.MD.1

Convert like measurement units within a given measurement system.

Convert.

4.
$$3,200 \text{ g} = 3.2 \text{ kg}$$
 5. $12 \text{ L} = 12,000 \text{ mL}$ 6. $200 \text{ cm} = 2 \text{ m}$

6.
$$200 \text{ cm} =$$
 2 m

7.
$$70,000 \text{ g} = _{100} \text{ kg}$$
 8. $100 \text{ dL} = _{100} \text{ L}$ 9. $60 \text{ m} = _{100} \text{ mm}$

Compare. Write <, >, or =.

10. 900 cm
$$=$$
 9,000 mm **11.** 600 km $>$ 5 m **12.** 5,000 cm $>$ 5 m

Problem Solving REAL WORLD



- **16.** Bria ordered 145 centimeters of fabric. Jayleen ordered 1.5 meters of fabric. Who ordered more fabric?
- **17.** Ed fills his sports bottle with 1.2 liters of water. After his bike ride, he drinks 200 milliliters of the water. How much water is left in Ed's sports bottle?

Jayleen

1 L, or 1,000 mL

Lesson Check (CC.5.MD.1)

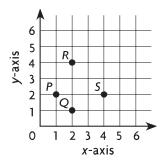
- **1.** Quan bought 8.6 meters of fabric. How many centimeters of fabric did he buy?
 - (A) 86 centimeters
 - 860 centimeters
 - (C) 8,600 centimeters
 - (D) 86,000 centimeters

- **2.** Jason takes 2 centiliters of medicine. How many milliliters is this?
 - (A) 200 milliliters
 - 20 milliliters
 - (C) 0.2 milliliter
 - (D) 0.02 milliliter

Spiral Review (CC.5.NF.1, CC.5.MD.1, CC.5.G.1)

- 3. Yolanda needs 5 pounds of ground beef to make lasagna for a family reunion. One package of ground beef weighs $2\frac{1}{2}$ pounds. Another package weighs $2\frac{3}{5}$ pounds. How much ground beef will Yolanda have left over after making the lasagna? (Lesson 6.6)
 - \bigcirc $\frac{1}{2}$ pound
 - \bigcirc B $\frac{1}{3}$ pound
 - \bigcirc $\frac{1}{5}$ pound
 - $\frac{1}{10}$ pound

- **4.** A soup recipe calls for $2\frac{3}{4}$ quarts of vegetable broth. An open can of broth contains $\frac{1}{2}$ quart of broth. How much more broth do you need to make the soup? (Lesson 6.6)
 - \mathbf{A} $\frac{1}{2}$ quart
 - **B** 2 quarts
 - $2\frac{1}{4}$ quarts
 - \bigcirc $3\frac{1}{4}$ quarts
- 5. Which point on the graph is located at (4, 2)? (Lesson 9.2)



- (A) A
- **©**
- **B** Q

- 6. A bakery supplier receives an order for 2 tons of sugar from a bakery chain. The sugar is shipped in crates. Each crate holds eight 10-pound bags of sugar. How many crates does the supplier need to ship to fulfill the order? (Lesson 10.4)
 - 50
 - **B** 80
 - **(C)** 200
 - **(D)** 4,000

Problem Solving • Customary and Metric Conversions

PROBLEM SOLVING Lesson 10.6

COMMON CORE STANDARD CC.5.MD.1

Convert like measurement units within a given measurement system.

Solve each problem by making a table.

Possible tables are given.

1. Thomas is making soup. His soup pot holds

8 quarts of soup. How many 1-cup servings of
soup will Thomas make?

Number of Quarts	1	2	3	4	8
Number of Cups	4	8	12	16	32

2. Paulina works out with a 2.5-kilogram mass. What is the mass of the 2.5-kilogram mass in grams?

32 1-cup servings

2,500 grams

Number of Kilograms	1	2	2.5
Number of Grams	1,000	2,000	2,500

3. Alex lives 500 yards from the park. How many inches does Alex live from the park?

Yards	1	2	3	4	5	500
Inches	36	72	108	144	180	18,000

18,000 inches

4. Emma uses a 250-meter roll of crepe paper to make streamers. How many dekameters of crepe paper does Emma use?

Meters	10	20	30	40	250
Dekameters	1	2	3	4	25

25 dekameters

5. A flatbed truck is loaded with 7,000 pounds of bricks. How many tons of brick are on the truck?

Pounds	2,000	3,000	4,000	7,000
Tons	1	1.5	2	3.5

3.5 tons

Lesson Check (CC.5.MD.1)

- 1. At the hairdresser, Jenny had 27 centimeters cut off her hair. How many decimeters of hair did Jenny have cut off?
 - **(A)** 0.027 dm
 - **B** 0.27 dm
 - 2.7 dm
 - **D** 270 dm

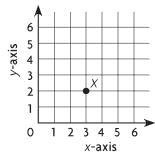
- 2. Marcus needs 108 inches of wood to make a frame. How many feet of wood does Marcus need for the frame?
 - (A) 3 feet
 - (B) 6 feet
 - \bigcirc $7\frac{1}{2}$ feet
 - 9 feet

Spiral Review (CC.5.NF.7c, CC.5.MD.1, CC.5.G.1)

- **3.** Tara lives 35,000 meters from her grandparents. How many kilometers does Tara live from her grandparents? (Lesson 10.5)
 - (A) 3.5 km
 - 35 km
 - **(C)** 350 km
 - **(D)** 3,500 km
- 5. A carpenter is cutting dowels from a piece of wood that is 10 inches long. How many $\frac{1}{2}$ -inch dowels can the carpenter cut? (Lesson 8.4)
 - **A** 2
 - **B** 5
 - **(C)** 15
 - **2**0

- 4. Dane's puppy weighed 8 ounces when it was born. Now the puppy weighs 18 times as much as it did when it was born. How many pounds does Dane's puppy weigh now?

 (Lesson 10.4)
 - 9 pounds
 - **B** 12 pounds
 - © 16 pounds
 - 18 pounds
- **6.** Which ordered pair describes the location of point *X*? (Lesson 9.2)



- **(**2, 3)
- **(B)** (2, 2)
- (3, 2)
- **(3**, 3)

Elapsed Time

COMMON CORE STANDARD CC.5.MD.1

Convert like measurement units within a given measurement system.

Convert.

3.
$$30 \text{ min} = \frac{1,800}{5} \text{ s}$$

Think:
$$1 \text{ day} = 24 \text{ hours}$$

 $5 \times 24 = 120$

7.
$$24 \text{ hr} = \frac{1,440}{\text{min}} \text{ min}$$
 8. $600 \text{ s} = \frac{10}{\text{min}}$

8.
$$600 \text{ s} = \frac{10}{1000} \text{ min}$$

min 9.
$$60,000 \text{ min} = \frac{1,000}{1,000} \text{ hr}$$

Find the start, elapsed, or end time.

10. Start time: 11:00 A.M.

Elapsed time: 4 hours 5 minutes

End time: ____**3:05** P.M.

12. Start time: ____8:15 A.M.

Elapsed time: $9\frac{3}{4}$ hours

End time: 6:00 P.M.

11. Start time: 6:30 P.M.

Elapsed time: 2 hours 18 minutes

8:48 P.M. End time:

13. Start time: 2:00 P.M.

Elapsed time: 6 hr 30 min,

End time: 8:30 P.M. or 6 hr

Problem Solving REAL WORLD



- **14.** Kiera's dance class starts at 4:30 P.M. and ends at 6:15 P.M. How long is her dance class?
 - 1 hr 45 min
- 15. Julio watched a movie that started at 11:30 A.M. and ended at 2:12 P.M. How long was the movie?

2 hr 42 min

Lesson Check (CC.5.MD.1)

- 1. Michelle went on a hike. She started on the trail at 6:45 A.M. and returned at 3:28 P.M. How long did she hike?
 - (A) 3 hours 27 minutes
 - **B** 4 hours 43 minutes
 - (C) 6 hours 27 minutes
 - 8 hours 43 minutes

- **2.** Grant started a marathon at 8:00 A.M. He took 4 hours 49 minutes to complete the marathon. When did he cross the finish line?
 - **(A)** 12:11 P.M.
 - 12:49 р.м.
 - © 2:11 P.M.
 - **D** 2:49 P.M.

Spiral Review (CC.5.NBT.3b, CC.5.NE1, CC.5.NE6, CC.5.MD.1)

- 3. Molly is filling a pitcher that holds 2 gallons of water. She is filling the pitcher with a 1-cup measuring cup. How many times will she have to fill the 1-cup measuring cup to fill the pitcher? (Lesson 10.6)
 - **(A)** 4
 - **B** 8
 - **(C)** 16
 - 32

- 4. Which decimal is between 1.5 and 1.7? (Lesson 3.3)
 - **(A)** 1.25
 - 1.625
 - **(C)** 1.75
 - **(D)** 1.83

- 5. Adrian's recipe for raisin muffins calls for $1\frac{3}{4}$ cups raisins for one batch of muffins. Adrian wants to make $2\frac{1}{2}$ batches of the muffins for a bake sale. How many cups of raisins will Adrian use? (Lesson 7.9)
 - \bigcirc 2 $\frac{1}{2}$ cups
 - \bigcirc $4\frac{1}{4}$ cups
 - $4\frac{3}{8}$ cups
 - \bigcirc $8\frac{3}{4}$ cups

- **6.** Kevin is riding his bike on a $10\frac{1}{8}$ -mile bike path. He has covered the first $5\frac{3}{4}$ miles already. How many miles does he have left to ride? (Lesson 6.7)
 - $4\frac{3}{8}$ miles
 - \bigcirc $4\frac{5}{8}$ miles
 - \bigcirc 5 $\frac{3}{8}$ miles
 - \bigcirc 5 $\frac{5}{8}$ miles

Chapter 10 Extra Practice

Lessons 10.1 - 10.3, 10.5

Convert.

1. 8 yd =
$$\frac{24}{1}$$
 ft 2. 185 in. = $\frac{15}{1}$ ft $\frac{5}{1}$ in. 3. 2 mi = $\frac{10,560}{1}$ ft

3.
$$2 \text{ mi} = \frac{10,560}{10,560}$$

4.
$$8 c = 4$$
 pt 5. $12 \text{ gal} = 48$ qt 6. $32 c = 256$ floz

7.
$$6{,}000 \text{ lb} = 3$$
 T 8. $9 \text{ lb} = 144 \text{ oz}$ 9. $112 \text{ oz} = 7$ lb

8.
$$9 \text{ lb} = 144 \text{ oz}$$

10.
$$380 \text{ dm} = \frac{38}{100} \text{ m}$$

11.
$$90.51 L = 9,051$$
 cl

10.
$$380 \text{ dm} = \frac{38}{10.00} \text{ m}$$
 11. $90.51 \text{ L} = \frac{9,051}{10.000} \text{ cL}$ 12. $450 \text{ mg} = \frac{0.45}{10.000} \text{ g}$

Compare. Write <, >, or =.

13. 9 ft
$$4 \text{ yd}$$
 14. 4 mi 5 15,840 ft **15.** 5 yd 1 ft 1 192 in.

19.
$$18 \text{ T} = 36,000 \text{ lb}$$
 20. $145 \text{ oz} = 9 \text{ lb}$ **21.** $1 \text{ T} = 3,400 \text{ lb}$

Lesson 10.4

Solve.

- 1. An office supply company is shipping a case of paper to a school. There are 10 reams of paper in the case. If each ream of paper weighs 32 ounces, what is the weight, in pounds, of the case of paper?
- 2. An adult blue whale weighs 120 tons. A baby blue whale weighs $\frac{1}{40}$ of the weight of the adult blue whale. How many pounds does the baby blue whale weigh?

20 lb

6,000 lb

Lesson 10.6

Solve.

- 1. Kat has a smoothie company. She needs to make 240 cups of fruit smoothies for the next day. If she wants to store the smoothies overnight in quart containers, how many quart containers will Kat need?
- 2. Ty needs to cut strips of wrapping paper that are each 9 inches wide. If Ty has 2 rolls of wrapping paper that are each 15 feet long, how many 9-inch strips can he cut?

60 containers

40 strips

Lesson 10.7

Convert.

1.
$$2 \text{ yr} = \frac{730}{1} \text{ d}$$

2.
$$260 \text{ wk} = 5$$
 yi

2.
$$260 \text{ wk} = \frac{5}{9} \text{ yr}$$
 3. $270 \text{ min} = \frac{4}{9} \text{ hr} \frac{30}{9} \text{ min}$

Find the start, elapsed, or end time.

4. Start time: 9:45 A.M.

Elapsed time: $\frac{3}{4}$ hour

End time: 10:30 A.M.

5. Start time: 7:30 P.M.

Elapsed time: 1 hr 59 min

End time: 9:29 P.M.