

4th Grade TEKS ALIGNED
MEASUREMENT

PRINTABLES




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A Perfect Space For My Dog


1st: Pick your dog. Circle your selection.

Breed:
Labrador




Adult
Weight:
55-70 lbs.

Breed:
Chihuahua



Adult
Weight:
3.3-6.5 lbs.

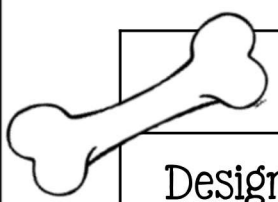
Breed:
Schnauzer



Adult
Weight:
30-50 lbs.

You have 60 ft. of fencing to build a play area for your dog. Consider the breed of your dog as you create a play space.

- Create at least 5 different rectangular play areas that use all 60 ft. of fencing.
- Calculate the play area of each of your designs.
- Select the best design and explain why you think it would be the best play area for your dog.



	Length	Width	Area	Perimeter
Design 1				
Design 2				
Design 3				
Design 4				
Design 5				



I will make a play space with a length of _____ ft. and a width of _____ft.
 This is the best play space for my _____ named _____
 because _____

The Perfect Garden

You are going to create a garden in your backyard to grow fruits and vegetables.

You have 25 ft. of wood to use as a border around your garden. You have enough garden soil to make a garden that is 35 square ft.

- Create at least 4 different garden designs
- Calculate the materials used for each design
- Select the best design for your garden



	Length	Width	Number of square feet inside garden (35 max)	Total length of all 4 sides (25 ft. max)
Design 1				
Design 2				
Design 3				
Design 4				



In my garden I will grow _____,

_____, _____, and

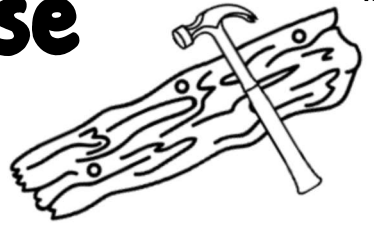
_____. My garden will be _____ ft. long and

_____ ft. wide. I will use _____ ft. of boards to make the border

and garden soil to cover _____ square feet.

My Secret Clubhouse

4.5D

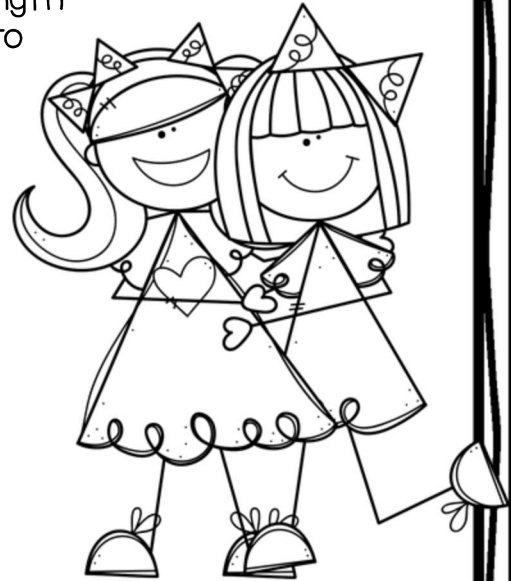


Your parents gave you materials to build your own secret clubhouse!

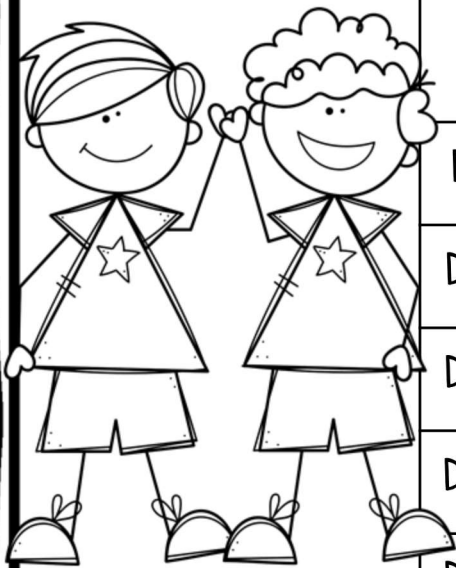
You have enough wood to build 42 ft. of walls for your clubhouse. Decide how long each wall will be, but the total length of all 4 walls cannot be longer than 42 ft. You do not need to use all 42 ft.

You have 98 concrete pavers to use for the floor. Each paver is 1 square foot. The pavers cannot have any space between them.

You have a tarp to use for the roof that is a square with a side length of 14 ft.



- Create 3-5 different designs
- Calculate the materials used for each design
- Select the best design for your clubhouse



	Length	Width	Number of pavers used (98 max)	Total length of all 4 walls (42 ft. max)
Design 1				
Design 2				
Design 3				
Design 4				
Design 5				

My secret club, called _____ will meet in my clubhouse. My clubhouse will be _____ ft. long and _____ ft. wide. It will have a perimeter of _____ and an area of _____.

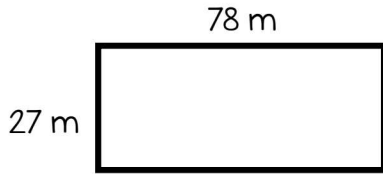
Perimeter & Area

1 step problems that practice the x7 facts

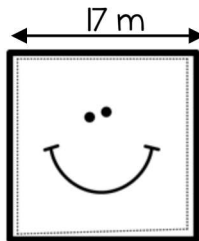
Name: _____

4.5D
4.4D

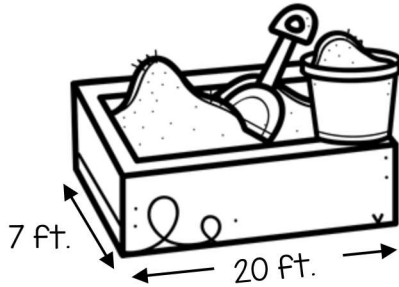
1. Find the area of this rectangle.



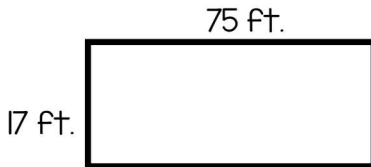
2. Find the perimeter of this square.



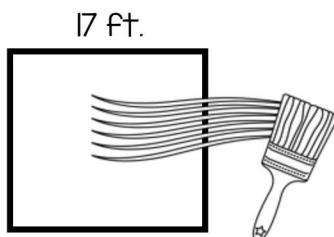
3. Calculate the perimeter of the sand box shown in the model below.



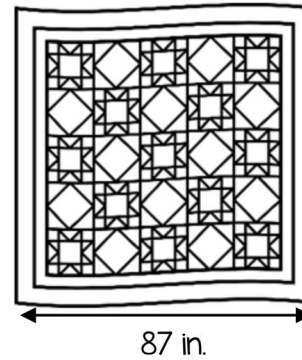
4. Determine the area of the rug shown in the picture below.



5. Lamar will paint the entire square wall below. How many square feet will he paint?



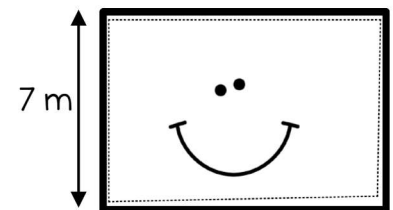
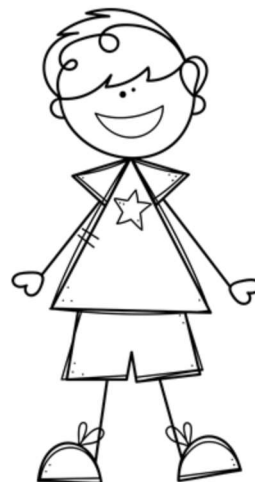
6. What is the area in square inches of the square quilt pictured below?



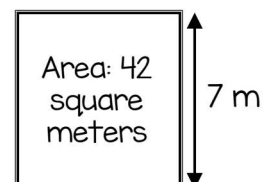
7. What is the area of a rectangle that measures 42 mm long and 37 mm wide?

8. What is the perimeter of a pillow that measures 17 in. by 16 in.?

9. What is the length of this rectangle if the area of the rectangle is 84 sq. meters?



10. What is the length of this rectangle?



Perplexing Perimeter & Area #1

Name: _____

4.5D

Multi-step problems

1. Find the length of this rectangle:



Perimeter:
48 m

2. Find the side length of this square:



Perimeter:
108 mm

3. A rectangular room has a length of 15 ft. The width is 3 feet shorter than the length. What is the area of the room?

4. A hot air balloon basket has a length of 8 ft. What is the width of the basket if the perimeter is 30 ft?



5. A magic carpet has a width of 9 feet. The length is 3 feet shorter than the width. What is the perimeter of the rug in feet?

Perplexing Perimeter & Area #2

Name: _____

4.5D

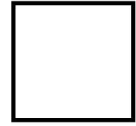
Multi-step problems

1. Find the area of this rectangle:



Perimeter:
48 m

2. Find the length of one side of this square:



Perimeter:
148 in.

3. Find the side length of this square:

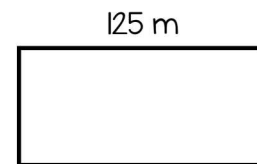


Perimeter:
396 mm

4. The area of an envelope is 153 cm. If the width is 9 cm, what is the perimeter of the envelope?



5. Find the height of this rectangle in meters:



Perimeter: 400 m



Approximate Customary Length

Inches, Feet, Yards & Miles

Name: _____

4.8A

1. About how long is a bike?



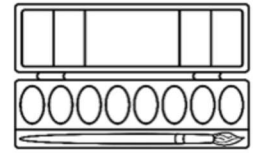
- A. 4 inches
- B. 4 cm
- C. 4 feet
- D. 4 yards

2. About how long is a band-aid?



- A. 3 feet
- B. 3 cm
- C. 3 inches
- D. 3 miles

3. About how long is a paint set?



- A. 11 inches
- B. 11 cm
- C. 11 feet
- D. 11 yards

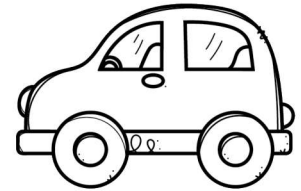
4. How wide is the state of Texas?

- A. 790 feet
- B. 790 miles
- C. 790 yards
- D. 790 inches

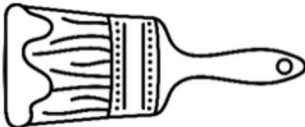


5. About how long is a car?

- A. 4 inches
- B. 4 feet
- C. 4 yards
- D. 4 miles



6. About how long is a paint brush?



- A. 8 inches
- B. 8 feet
- C. 8 miles
- D. 8 yards

7. About how wide is a button?



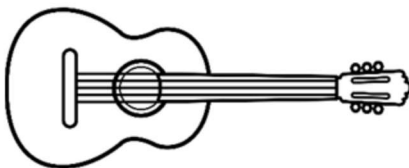
- A. 05 feet
- B. 05 yards
- C. 05 inches
- D. 05 miles

8. How far is it from earth to the moon?



- A. 238,900 inches
- B. 238,900 feet
- C. 238,900 yards
- D. 238,900 miles

9. About how long is a guitar?



- A. 2 feet
- B. 40 inches
- C. 2 yards
- D. 10 inches

10. How long is the White House?



- A. 168 feet
- B. 1 mile
- C. 10 yards
- D. 500 inches

Customary Conversions

Inches, Feet, Yards Miles

Name: _____

4.8B

1. The length of a ribbon is 4 yards. How many feet are equivalent to 4 yards?

expression



2. The distance from Mario's house to the market is 2 miles. How many yards are equivalent to this distance?

expression

3. The distance from home plate to 2nd base is about 126 feet. How many yards is that equal to?

expression

4. A giant stuffed bear is 4 feet tall. How many inches tall is the stuffed bear?

expression

5. A bookcase is 84 inches tall. How many feet tall is the bookcase?

expression

6. Jeremiah's street is 255 feet long. How many yards is that equivalent to?

expression

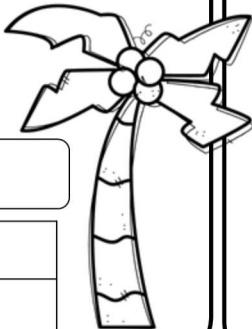
7. Grace's curtains are 9 feet long. How many inches long are her curtains?

expression



8. A palm tree is 7 feet tall. How many inches is that equivalent to?

expression



9. A fabric store has 72 feet of blue fabric. How many yards is that equal to?

expression

10. Sam has 144 inches of string. How many feet is that equivalent to?

expression

Problem Solving with Conversions

Name: _____

4.8C

Inches, Feet, Yards, Miles

1. Maria is on a scavenger hunt. She walked 83 feet to the first clue and 8 yards to the next clue. How many feet did she walk in all?

2. Bella makes 4 ribbon flowers. Each flower uses 18 inches of ribbon. After making the flowers, she has 3 feet of ribbon left. How many feet of ribbon did she have to start with?



3. A banner is made from 15 triangles. Each triangle is 8 inches wide. How many feet long is the banner?

4. A restaurant has two display cases next to each other. One is 4 ft long and the other is 50 in long. How long are they altogether in inches?

5. Justin painted his entire fence. He painted 57 feet of the fence one day and 13 yards another day. How many feet long is his fence?



6. Luke has an 8 foot board. He is going to cut five 16 inch pieces from his board for a project. How long will his board be in inches after cutting these pieces off?

7. An obstacle course is 489 yards long. The distance from the start to the giant climbing wall is 150 feet. After Tim gets to the climbing wall, how many yards are left in the course?



8. Adam has one snake that is 28 inches long. His other snake is 3 feet long. What is the combined length in inches of his snakes?

9. Olivia ran four 50 yard sprints. She also ran 1 mile. How many yards did she run in all?

10. A factory produced 850 feet of rope on Monday and 1,517 feet on Tuesday. How many yards of rope were produced on Monday and Tuesday combined?



Approximate Metric Length

Name: _____

4.8A

mm, cm, m, km

1. About how tall is a coffee cup?

- A. 14 m
- B. 14 mm
- C. 14 cm
- D. 14 km



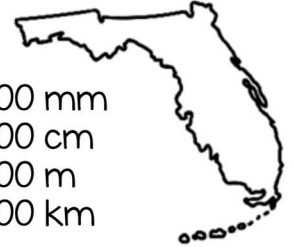
2. About how tall is a one-story house?

- A. 5 mm
- B. 5 cm
- C. 5 m
- D. 5 km



3. About how far is it to drive from San Antonio, TX to Orlando, Florida?

- A. 1,900 mm
- B. 1,900 cm
- C. 1,900 m
- D. 1,900 km



4. About how tall are the pyramids in Egypt?



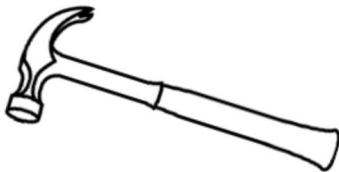
- A. 139 m
- B. 139 cm
- C. 139 mm
- D. 139 km

5. About how long is a crocodile?

- A. 1.7 km
- B. 1.7 mm
- C. 1.7 m
- D. 1.7 cm



6. About how long is a hammer?



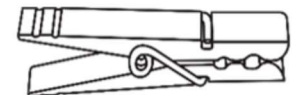
- A. 30 km
- B. 30 cm
- C. 30 m
- D. 30 mm

7. About how wide is a nut?



- A. 10 mm
- B. 10 km
- C. 10 cm
- D. 10 m

8. About how long is a clothespin?



- A. 8 m
- B. 8 km
- C. 8 mm
- D. 8 cm

9. About how tall is a cowboy boot?

- A. 30 cm
- B. 30 m
- C. 30 mm
- D. 30 km



10. About how long is a garbage truck?

- A. 11 cm
- B. 11 km
- C. 11 mm
- D. 11 m



Metric Conversions & Problem Solving

Length: mm, cm, m, & km

Name: _____

4.8B
4.8C

1. A cereal box is 290 mm tall. How many cm is this equivalent to?

expression		

2. A rug is 2 meters wide. How many centimeters wide is the rug?

expression		

3. A piece of candy is 3 cm wide. How many millimeters is this equivalent to?

expression		



4. A race is 4 km. How many meters is this equal to?

expression		



5. A large painting is 300 centimeters tall. How many meters tall is the painting?

expression		

6. The distance between Houston and Dallas is 384,000 m. How many km is that equal to?

expression		

7. A race is 1 km long. Damian has run 578 meters of the race. How much does he have left to run?

8. A soccer ball is 70 cm wide. A baseball is 73 mm wide. How much wider is a soccer ball than a baseball?

9. An iPhone 7 is 138.3 mm long. An iPhone 7 plus is about 2 cm longer than an iPhone 7. How long is an iPhone 7 plus in mm?

10. Tim has 3 cars that are 12 cm long and 1 car that is 70 mm long. If he places all 4 cars end-to-end, how long will the line be?

11. Taylor has a goal to run 5 km. She ran 1,200 m each day for 3 days. How far does she need to run to reach her goal?

12. Grace is making a necklace that is 30 cm long. She used 12 beads that are each 15 mm wide. How many 1 cm beads does she need to add to finish the necklace?



Approximate Customary & Metric Capacity

Fluid ounce, cup, pint, quart, gallon, milliliter & liter

Name: _____

4.8A

1. About how much ink will fit in an ink jar?

- A. 2 liters
- B. 2 cups
- C. 2 fluid ounces
- D. 2 pints



2. About how much gas fits in a gas can?

- A. 5 cups
- B. 5 gallons
- C. 5 pints
- D. 5 fluid ounces



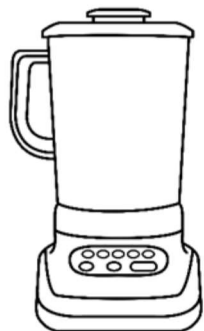
3. About how much soda is in a can?

- A. 1.5 gallons
- B. 1.5 pints
- C. 1.5 cups
- D. 1.5 liters



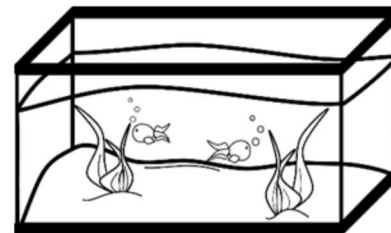
4. About how much smoothie would a blender hold if it was full?

- A. 2 fluid ounces
- B. 2 quarts
- C. 2 gallons
- D. 2 milliliters



5. About how much water would fill an aquarium?

- A. 14 cups
- B. 14 pints
- C. 14 gallons
- D. 14 fluid ounces



6. About how much water is inside a full water bottle?

- A. 1 liter
- B. 1 fluid ounce
- C. 10 cups
- D. 10 gallons



7. About how much water can a kiddie pool hold?

- A. 50 cups
- B. 50 pints
- C. 50 liters
- D. 50 gallons



8. About how much tea could a cup hold?

- A. 10 gallons
- B. 10 cups
- C. 10 liters
- D. 10 fluid ounces



9. About how much water is in one droplet of water?

- A. 1 gallon
- B. 1 milliliter
- C. 1 liter
- D. 1 cup



10. About how much water is in the ocean?

- A. 264,170,000,000 milliliters
- B. 264,170,000,000 gallons
- C. 264,170,000,000 cups
- D. 264,170,000,000 fluid ounces



Customary & Metric Capacity: Problem Solving

Name: _____

4.8B

4.8C

Fluid ounce, cup, pint, quart, gallon, milliliter & liter

1. A container holds 448 fluid ounces. How many cups can that container hold?

expression

2. Emma has 8 quarts of juice. How many pints of juice is this equivalent to?

expression

3. Thomas has 4 liters of saline solution. How many milliliters is this amount equal to?

expression

4. Rick has 4 gallons of punch. How many quarts is this equal to?

expression

5. Taylor has 12,000 mL of water. How many liters is this equivalent to?

expression

6. Rigo has 8 pints of lemonade. How many quarts of lemonade is this equal to?

expression

7. Isaac has 2 gallons of iced tea in a jug. He poured 1 quart into a pitcher. How much tea is still in the jug?

8. Kara has 1 liter of water in a beaker. She poured 375 mL into a graduated cylinder. How much is left in the beaker?

9. Joshua has 8 pints of soda. Cooper has 5 quarts of soda. How many more pints of soda does Cooper have than Joshua?

10. Macy wants to make 6 quarts of punch. She mixed 7 pints of lemon-lime soda and 3 pints of strawberry juice. How many pints of pineapple juice does she need to add to have a total of 6 quarts of punch?

11. Rick poured 4 containers of water with 175 mL of water in each into a 1 liter jar. How much more water will fit in the jar?

12. Victoria has a 10 gallon container of ice cream. She scooped out some of the ice cream into 1 quart containers. She filled 3 boxes that each had 4 one-quart containers. How many quarts of ice cream are left in the 10 gallon container?

party Punch



You are making 2 special drinks for a party you are hosting for your friends. You are going to make one that is delightfully delicious and another that is frankly foul.

Create 2 recipes that are each 3 gallons. Choose a level that will give you the right challenge.

- Level 1:** All ingredients will be labeled in quarts.
- Level 2:** Some ingredients will be in quarts, and other ingredients will be in pints.
- Level 3:** Some ingredients will be in quarts, some in pints and others in cups.



Delicious [dih-lish-uh s], adj. highly pleasing to ones senses

Foul [foul], adj. grossly offensive to the senses; disgustingly loathsome

My *Delightfully Delicious* Party Punch is called:

Total: 3 gallons

Ingredients:

My *Frankly Foul!* Party Punch is called:

Total: 3 gallons

Ingredients:



Approximate Weight & Mass

Ton, pound, ounce, kilogram, gram, milligram

Name: _____

4.8A

1. What is the mass of a AA battery?

- A. 23 kg
- B. 23 g
- C. 23 mg
- D. 2.3 g



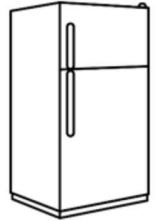
2. About how much does a box of cereal weigh?

- A. 25 lbs.
- B. 25 ounces
- C. 25 tons
- D. 2.5 tons



3. About how much does a refrigerator weigh?

- A. 200 lbs.
- B. 200 tons
- C. 20 lbs.
- D. 200 ounces



4. What is the approximate weight of a football?

- A. 15 tons
- B. 15 ounces
- C. 15 lbs.
- D. 1.5 tons



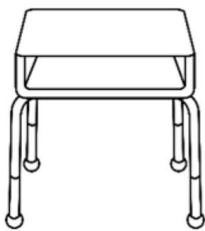
5. About how heavy is a dumpster?

- A. 5 lbs.
- B. 50 lbs.
- C. 500 lbs.
- D. 5,000 lbs.



6. What is the mass of a student desk?

- A. 8.7 kg
- B. 8.7 g
- C. 8.7 mg
- D. 87 mg



7. About how much does a hair dryer weigh?

- A. 1.5 ounces
- B. 1.5 lbs.
- C. 1.5 tons
- D. 0.15 ounces



8. What is the approximate mass of a binder clip?

- A. 9 tons
- B. 9 mg
- C. 0.9 tons
- D. 9 g



9. About how much does a computer monitor weigh?

- A. 11 ounces
- B. 11 pounds
- C. 11 tons
- D. 1.1 pounds



10. About how much does a mail truck weigh?

- A. 1.5 tons
- B. 1.5 lbs
- C. 1.5 ounces
- D. 150 lbs.



Weight & Mass: Problem Solving

Ounce, pound, ton, mg, g, kg

Name: _____

4.8C

1. A cat weighs 14 lbs. How many ounces is this equivalent to?



expression

2. A book weighs 32 ounces. How many lbs. is that equal to?

expression

3. A lab specimen has a mass of 7 grams. How many milligrams is that equal to?

expression

4. An SUV weighs 2 tons. How many pounds does the SUV weigh?

expression

5. An elephant weighs 12,000 lbs. How many tons does this elephant weigh?

expression

6. A jar of pennies has a mass of 3,000 grams. How many kg is this equal to?

expression

7. Anthony's truck and trailer have a combined weight of 7 tons. His trailer weighs 3,500 lbs. How much does his truck weigh?



8. Carissa's backpack has a mass of 9 kg. She took a book out of her backpack that is 450 g. What is the mass of her backpack now?

9. Elizabeth's cat weighs 10 lbs. Nayeli's kitten weighs 15 ounces. How much heavier is the cat than the kitten?

10. Adam has a one pound box of chocolates. He took 3 chocolates that each weighed 2 ounces out of the box. What is the weight of the remaining chocolate?

11. A large delivery truck weighs 15 tons. How much does the truck weigh after unloading 6 pallets that weigh 750 lbs. each?

12. The mass of a soccer ball is 450 g. How much greater is the mass of 9 soccer balls than a 2 kg water jug?



Time: Problem Solving

Converting Minutes & hours,
Elapsed time that goes past an hour

Name: _____

4.8C

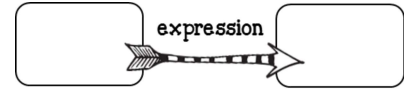
1. A movie lasted 120 minutes. How many hours is that equal to?



2. Sophia slept for 8 hours. How many minutes is that equivalent to?



3. Aaron played outside for 4 hours. How many minutes is that equal to?



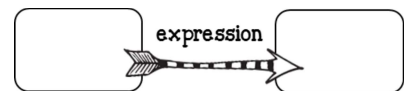
4. Students are at school for 7 hours. How many minutes is that equal to?



5. Mateo read for 180 minutes. How many hours is that equivalent to?



6. The Bell family was in the car for 240 minutes. How many hours is that equal to?



7. Grace left her house at 4:52 pm. It took 25 minutes to drive to the mall. What time did she arrive at the mall?

8. Evan started her homework at 3:45 pm. She worked on her homework for 28 minutes. What time did she finish?

9. Luke put a pizza in the oven at 5:56 pm. The pizza needs to bake for 12 minutes. At what time does he need to take the pizza out of the oven?

10. The class started rehearsing their play at 12:36 pm. They rehearsed for 55 minutes. What time did they finish?

11. Alexa woke up at 6:43 am. She spent 35 minutes getting ready for school. When was she ready for school?

12. Alaina turned on the TV at 7:58 am. She watched TV for 45 minutes. What time did she stop watching TV?

TIME FOR FUN

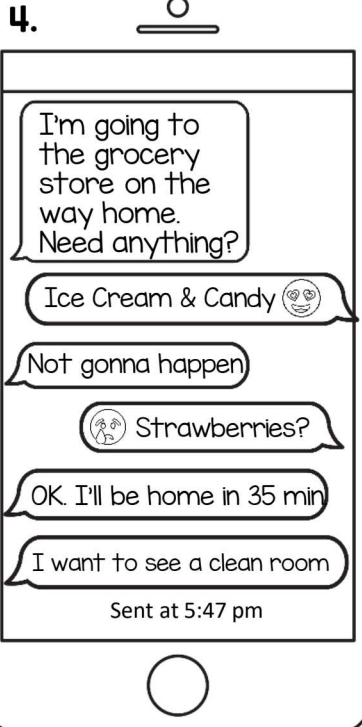
Time: *Problem Solving* Elapsed time that passes the next hour

1. You are at the fair to see a show. The show starts at 1:30 pm and lasts for 47 minutes. What time will the show end?



There is a tram to take you from the fairgrounds to the parking lot. You just missed the last tram that left at 3:34 pm. The next tram will come in 27 to 44 minutes.

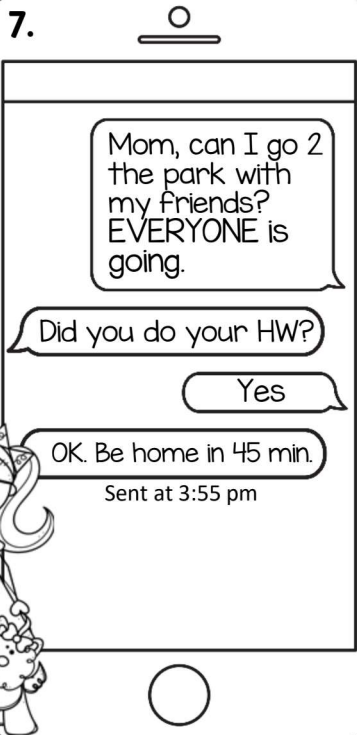
2. What is the earliest the next tram could come?
3. What is the latest the next tram could come?



WHEN DO YOU NEED TO HAVE YOUR ROOM CLEANED BY?

You are at the water park waiting for the giant bucket of water to dump hundreds of gallons of water on unsuspecting kids. It last dumped water at 11:55 a.m. It dumps water at random times and could be as soon as 18 minutes or as long as 123 minutes.

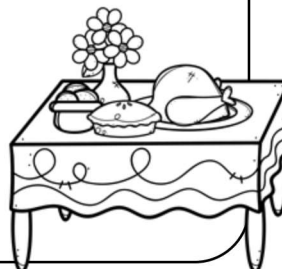
5. What is the soonest it will dump water again?
6. What is the latest it will dump water again?



WHAT TIME DO YOU NEED TO BE HOME?

You are cooking a turkey for dinner. Based on the weight of the turkey, it could take between 125 and 155 minutes to cook. You put the turkey in the oven at 1:07.

8. What is the earliest the turkey will be done?
9. What is the latest the turkey will be done?



WHAT TIME SHOULD YOU EXPECT YOUR FRIEND TO ARRIVE?

BEST Day Ever

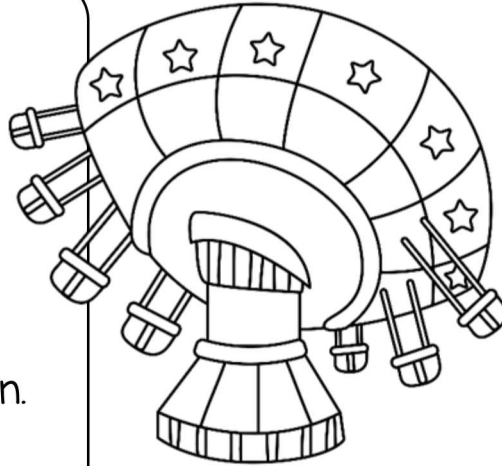
You are going to Wally World with your best friends tomorrow. You downloaded an app that plans your entire day for you based on data from previous years. Calculate the times you will finish each ride based on the app's predictions.

Arrive at the park: 9 am
Walk to Tilt-O-World: 7 min.
Wait in line: 8 min.
Ride length: 4 min.
Get off Tilt-O-World at

Walk to the Mine Train: 9 min.
Wait in line: 36 min.
Ride length: 4 min.
Get off the Mine Train at

Walk to the Ferris Wheel: 3 min.
Wait in line: 24 min.
Ride length: 8 min.
Get off the Ferris Wheel at

Walk to the Race Cars: 14 min.
Wait in line: 72 min.
Ride length: 6 min.
Get off the Race Cars at



Finish Lunch: 12:55 pm
Walk to Planet Mountain: 12 min.
Wait in line: 98 min.
Ride length: 5 min.
Get off Planet Mountain at

Walk to the Cyclone: 4 min.
Wait in line: 38 min.
Ride length: 4 min.
Get off the Cyclone at

Walk to the Viper: 3 min.
Wait in line: 74 min.
Ride length: 4 min.
Get off the Viper at



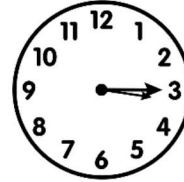
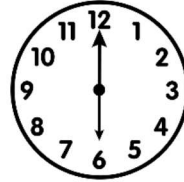
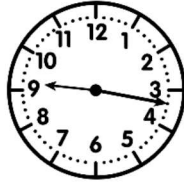
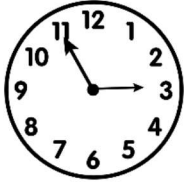
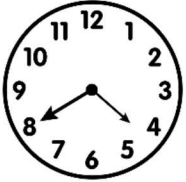
Problem Solving with Elapsed Time

Using clocks for a start time

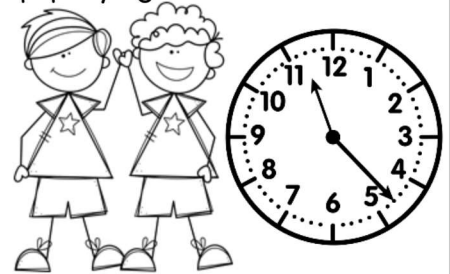
Name: _____

4.8C

What time is shown on each clock below?



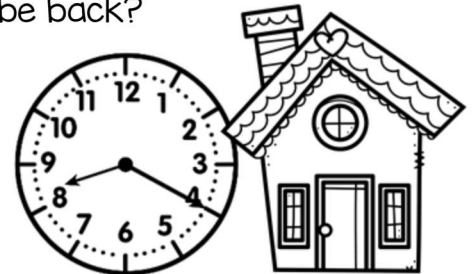
1. Isaac started playing basketball with his friends at the time shown on the clock below. He played basketball for 1 hour and 18 minutes. What time did he stop playing basketball?



2. Lucy is baking a dessert. The dessert needs to bake for 55 minutes. She put it in the oven at the time shown on the clock below. What time does she need to take it out?



3. Dylan is heading out to play at a friend's house. He told his mom he would be back in 90 to 200 minutes. (He was trying to make her do some math.) He left at the time shown on the clock. What is the earliest time and the latest time he could be back?



4. Makenzie went to the store at the time shown below. She was gone for 85 minutes. What time did she return?

