NAME | DATE

Which Strategy? page 1 of 2

Note to Families

At school, we have been exploring the standard (or traditional) algorithm for addition. Another name for this strategy is the regrouping method. We've compared the standard algorithm to other strategies we have learned this year. Ask your child questions about the strategies he or she is using.

1 Use the standard algorithm to solve each problem. Then solve it a different way. Label your method. Circle the strategy that seemed quicker and easier.

	Standard algorithm	Different
a 265 + 178 =		
b 213 + 198 =		
c 234 + 342		
d 168 + 143		

2 Conrad is making bread. After he mixes the ingredients together, he has to let the bread rise for 95 minutes. Then, the bread will bake for 58 minutes.

a How long will it take for the bread to rise and bake? Show your thinking using numbers, sketches, or words.

b What strategy did you use to solve this problem? Why?

(continued on next page)

NAME | DATE

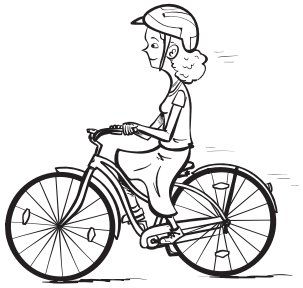
Which Strategy? page 2 of 2

3 Saima is training for a bike race. On Saturday, she rode her bike for 172 minutes. On Sunday, she rode for 153 minutes.

a How much longer did she ride her bike for on Saturday than on Sunday? Show your thinking using numbers, sketches, or words.

b What strategy did you use to solve this problem? Why?

c **CHALLENGE** Before she rides her bike, Saima warms up for 12 minutes. On Tuesday, Saima rode her bike for 52 miles. If it takes Saima 6 minutes to ride each mile, how long did it take for Saima to warm up and ride her bike on Tuesday?



Combinations of 1,000

4 Fill in the missing numbers to make a total of 1,000 in each box.

480 + ☐ = 1,000 670 + ☐ = 1,000 170 + ☐ = 1,000

210 + ☐ = 1,000 720 + ☐ = 1,000 500 + ☐ = 1,000

840 + ☐ = 1,000 360 + ☐ = 1,000

NAME | DATE

Estimates, Sums & Story Problems page 1 of 2

1 Round each pair of numbers to the nearest ten, and then add the rounded numbers to estimate the sum. Then use any strategy you like to find the exact sum. Compare the exact sum to your estimate to make sure that it makes sense. If your answer does not make sense, double-check your work or solve the problem another way.

Number to Add	Round & Add	Exact Sum	Check your answer if the sum and estimate were far apart.
a 386 + 275			
b 517 + 378			
c 263 + 477			

2 Use estimation to answer each question yes or no. Do not find exact sums.

a Shawna has a photo album with space for 160 pictures. She has 33 pictures of her family, 48 pictures from summer camp, and 57 pictures from school. Does she have enough pictures to fill the photo album?

b Fred needs 410 game markers to play a game with his classmates and their families on Family Math Night. He has 96 red markers, 123 blue markers, 106 yellow markers, and 72 green markers. Does he have enough game markers to play the game?

(continued on next page)

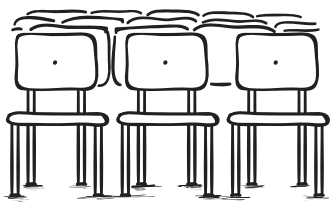
NAME | DATE

Estimates, Sums & Story Problems page 2 of 2

3 Jasmine's neighbor paid her $32 for helping with some yard work. Jasmine gave her brother $8 because he helped her with some of the work. Then she went shopping with the rest of the money. She bought 3 books that were $6 each and a bottle of juice for $2. How much money did she have left? Show all your work.

4 The third graders are putting on a play for the fourth and fifth graders. They need to set up chairs in the gym for the fourth and fifth graders to sit on. There are 86 fourth graders, 79 fifth graders, 3 fourth grade teachers, and 3 fifth grade teachers. How many chairs will the third graders need to set up? Show all your work.

5 **CHALLENGE** The third graders can put no more than 20 chairs in a row. How many rows of chairs will they need? Show all your work.



NAME | DATE

Writing Time in Different Ways page 1 of 2

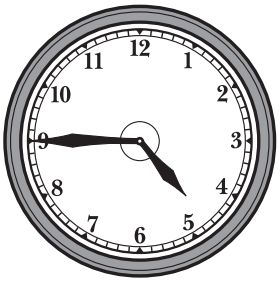
Word Bank				
1 one	2 two	3 three	4 four	5 five
6 six	7 seven	8 eight	9 nine	10 ten
11 eleven	12 twelve	20 twenty	30 thirty	40 forty
50 fifty	60 sixty	o'clock		

1 Write the time shown on each clock with numbers. Write it again with words.

ex

3:55
three fifty-five

a

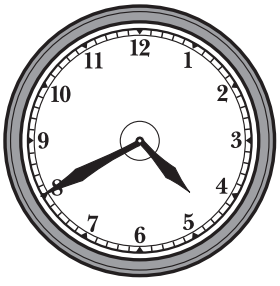


b

c

d

e



2 How many minutes are there in an hour? _____

(continued on next page)

NAME | DATE

Writing Time in Different Ways page 2 of 2

Word Bank		
15 fifteen	30 thirty	45 forty-five
quarter past	half past	quarter 'til

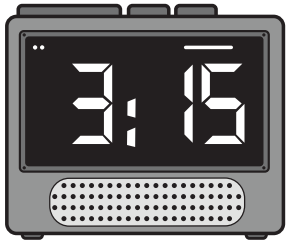
3 Write the time shown on each clock with number words. Write it again with time telling words.

ex

four forty-five
quarter 'til five

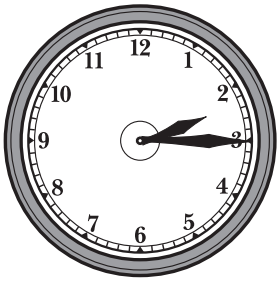
a

b

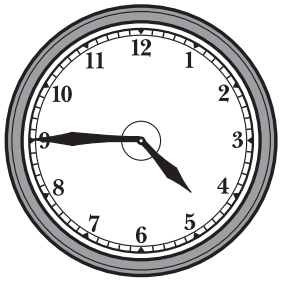


c

d



e



4 **CHALLENGE** How many minutes are there in the following fractions of an hour?

$\frac{2}{4}$ of an hour _____ $\frac{3}{4}$ of an hour _____ $\frac{1}{3}$ of an hour _____

$\frac{1}{6}$ of an hour _____ $\frac{3}{6}$ of an hour _____ $\frac{1}{12}$ of an hour _____

$\frac{2}{3}$ of an hour _____ $\frac{5}{12}$ of an hour _____

NAME | DATE

Annie's School Day page 1 of 2

1 Annie is a third grader at Bridger School. There are two clocks in her classroom. One is a digital clock, and the other is an analog clock with a regular clock face. Read the clocks below, and write the time to show when the class does different activities through the day.

a School starts at _____.

b Reading starts at _____.

c Recess is over at 10:20, but by the time the kids got back to class today, it was _____.

d On Tuesdays and Thursdays, Annie's class has gym at 11:25, but today they got there a little early, at

_____.

e Recess starts at 10:00, but Annie's class is sometimes a few minutes late getting out to the playground. Today, they got out at

_____.

f Lunch starts at 11:50, and then the kids have recess again. Annie and her friends didn't get out to the playground until _____ today.

g Annie's teacher always reads a chapter book to the class after lunch recess. It took the kids a few minutes to get settled, so Mr. Willis didn't start reading until

_____.

h Math always starts at 1:00, but Mr. Willis got finished with the book a couple of minutes early, so the class started math at _____.

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NAME | DATE

Annie's School Day page 2 of 2

Show your thinking in numbers, words, or sketches when you solve these problems.

2 Annie measured the cover of her library book using jumbo paperclips. She found that it is 5 paperclips high and $4\frac{1}{2}$ paperclips wide. A jumbo paperclip is 5 centimeters long.

a How many centimeters high is the cover of Annie's library book?

b How many centimeters wide is the cover of Annie's book?

3 **CHALLENGE** Annie's reading class begins at 8:35 and lasts 1 hour and 45 minutes. What time is her reading class over? Show two different ways to find the answer.

a One way:

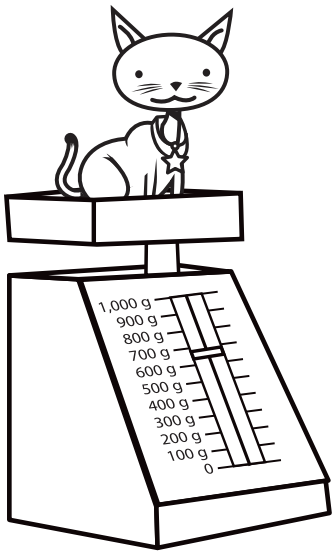
b Another way:

Annie's reading class is over at _____.

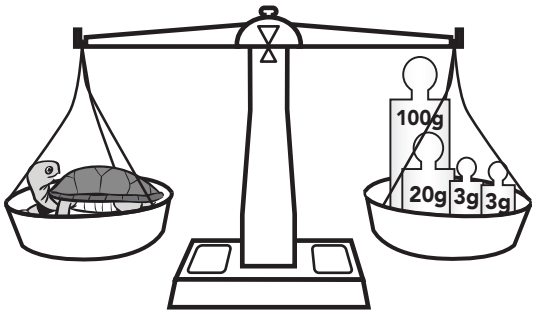
NAME | DATE

Measuring Mass & Weight page 1 of 2

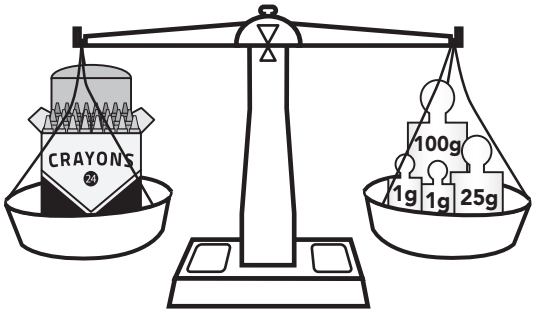
1 Read the scale. How much does the kitten weigh?



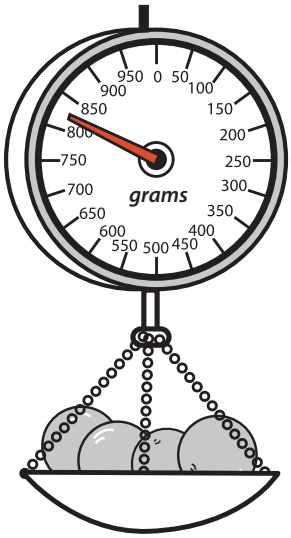
2 Look at the pan balance scale. What is the mass of the turtle?



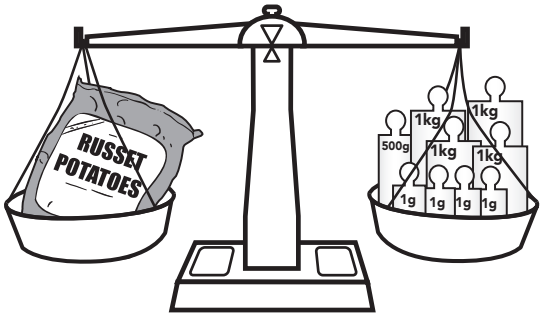
3 The _____ of the box of crayons is _____.



4 Read the scale. How much do the oranges weigh?



5 Look at the pan balance scale. What is the mass of the bag of potatoes in grams? Show your work.



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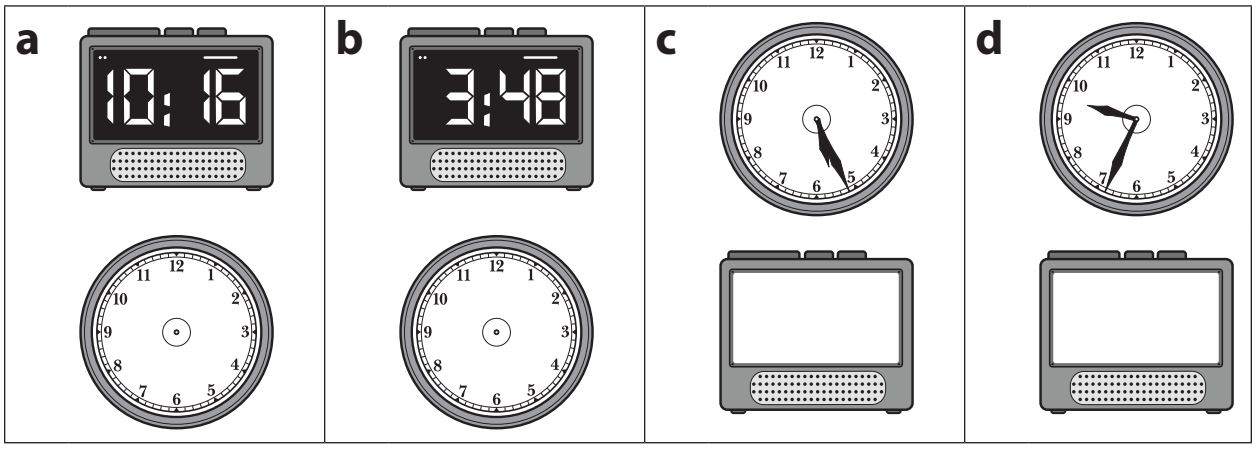
NAME | DATE

Measuring Mass & Weight page 2 of 2

6 What is the total mass of Sarina's lunch, including her lunchbox, if her sandwich is 180 grams, her apple is 125 grams, and her cookies are 35 grams each? The lunch box itself has a mass of 350 grams. Sarina has 4 cookies in her lunch. Show your work.

7 Draw the hands on the analog clocks to show the times on the digital clocks for **a** and **b** below. Write the times shown on the analog clocks on the digital clocks for **c** and **d** below.



8 **CHALLENGE:** Sarina's piano teacher gave her a large candy bar. One serving has a mass of 39 grams. The candy bar has 2 and $\frac{1}{2}$ servings. What is the mass of the whole candy bar? Show all of your thinking.

NAME | DATE

Metric Measures of Mass & Liquid Volume page 1 of 2

1 What unit would you use to measure the mass of the following items? Circle the correct answer.

a The mass of an envelope

grams kilograms

b The amount of soda a straw can hold

milliliters liters

c The mass of a 3rd grader.

grams kilograms

d The amount of milk in a container at school

milliliters liters

e The mass of a loaf of bread

grams kilograms

f The amount of water used to take a bath

milliliters liters

g The amount of milk in a cake recipe

milliliters liters

h The amount of gasoline in a car

milliliters liters

i The mass of an apple

grams kilograms

j The amount of cough medicine you take

milliliters liters

k The mass of a television

grams kilograms

(continued on next page)

NAME | DATE

Metric Measures of Mass & Liquid Volume page 2 of 2

2 Go on a scavenger hunt at home. Try to find objects that have a mass of about 1 gram and about 1 kilogram. Record them below.

1 gram (g)	1 kilogram (kg)

3 Now try to find containers that hold about 1 milliliter and 1 liter. Record them below.

1 milliliter (ml)	1 liter (l)

4 What object in your home do you think has the most mass?

a About how much mass does it have in kilograms?

b What object in your home probably has the least mass?

5 What container in your home do you think has the largest capacity (holds the most liquid)?

a About how many liters do you think it holds?

b What container in your home probably has the smallest capacity?

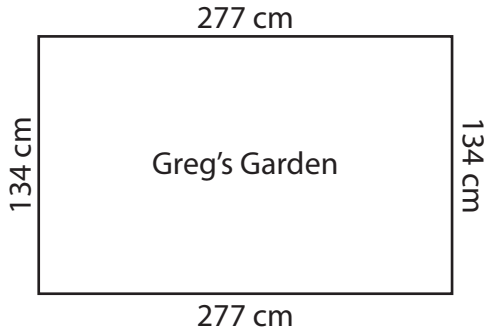
NAME | DATE

Grasshopper Math page 1 of 2

Grasshoppers are insects that can jump 10 times their height. Help Greg Grasshopper solve the problems below. Use the correct unit in your answer. Use numbers, sketches, or words to show your work.

1 Greg Grasshopper has a mass of 3 grams. He climbs onto a leaf with 9 other grasshoppers that each have a mass of 3 grams. Then 4 grasshoppers jump off of the leaf. What is the total mass of the grasshoppers that are still on the leaf?

2 Greg Grasshopper lives in a rectangular garden. One side of the garden is 134 cm long. The other side is 277 cm long. If Greg Grasshopper walks all the way around his garden 2 times, how far has he walked?



3 Walking always makes Greg Grasshopper hungry. After he walked around his garden twice, he ate 387 milligrams of grass and 246 milligrams of leaves. How many milligrams did he eat?

4 Then Greg was tired. He fell asleep for 2 hours. When he woke up, it was 3:45. What time did he fall asleep?

(continued on next page)

NAME | DATE

Grasshopper Math page 2 of 2

5 Greg Grasshopper has three cousins: Gary, Grant, and Garth. They all can jump 10 times farther than their length. Figure out how many jumps each cousin needs to make to travel a distance of 9 meters. (Hint: There are 100 centimeters in a meter.) Use numbers, sketches, or words to show your work.

a Gary is 3 centimeters long.

Gary has to make _____ jumps to travel a distance of 9 meters.

b Garth is 5 centimeters long.

Garth has to make _____ jumps to travel a distance of 9 meters.

c **CHALLENGE** Grant is 4 centimeters long.

Grant has to make _____ jumps to travel a distance of 9 meters.

NAME | DATE

Sharing Candy Bars & Measuring page 1 of 2

1 You are sharing a candy bar with friends.

a If you share with one person, there are two of you sharing. How do you write your share?

b If you share with two people, there are three of you sharing. How do you write your share?

c Would you have more candy if you share with one person or two people? Explain your answer.

2 Circle the appropriate words to fill in the blanks.

a A bowling ball is heavy! I would measure its _____ with _____.

mass	length	volume	liters	kilograms	grams

b A sun jellyfish is pretty long. I would measure its _____ with _____.

mass	length	volume	liters	kilograms	centimeters

c A water bottle doesn't hold much. I would measure its _____ with _____.

mass	length	volume	liters	kilograms	milliliters

d A giraffe is tall. I would measure its _____ with _____.

mass	height	volume	liters	kilograms	meters

e An elephant eats lots! I would measure the _____ of its food with _____.

mass	length	volume	liters	kilograms	meters

f An Etruscan shrew is short. I would measure its _____ with _____.

mass	length	volume	liters	kilograms	centimeters

g An Etruscan shrew is light. I would measure its _____ with _____.

mass	length	volume	grams	kilograms	meters

h That bucket holds a lot! I would measure its _____ with _____.

mass	length	volume	liters	kilograms	meters

(continued on next page)

NAME | DATE

Sharing Candy Bars & Measuring page 2 of 2

Show all your thinking with numbers, words, or sketches for each of the problems below. Label your answers with the correct units.

3 A bottle of Charlie's favorite brand of orange juice has 7 servings. Each serving is 240 milliliters (ml).

a How many milliliters of orange juice are in the whole bottle?

b Is that more or less than 2 liters? (Hint: 1 liter = 1,000 milliliters)

4 **CHALLENGE** A box of soup contains 4 servings. Each serving has $4\frac{1}{2}$ grams of fat and 720 milligrams of sodium.

a If someone was really hungry and ate all 4 servings in the box, how many grams of fat would that person eat?

b How many milligrams (mg) of sodium would that person eat? (1 gram = 1,000 milligrams)

c It is recommended that people eat no more than 2,400 mg of sodium in a day. If a person ate a whole box of the soup, would that person take in more or less than 2,400 mg?

d How many milligrams more or less?

NAME | DATE

Measurement & Fractions page 1 of 2

1 Circle the appropriate words to fill in the blank.

a A piece of paper is light! I would measure its _____ with _____.

mass	length	volume	milliliters	grams	centimeters

b That pencil is short! I would measure its _____ with _____.

mass	length	volume	milliliters	grams	centimeters

c A soda can doesn't hold very much. I would measure its _____ with _____.

mass	length	volume	milliliters	grams	centimeters

2 Circle your answer.

a Which is longer—half of a day or half of an hour?

b Which is heavier—half of a gram or half of a kilogram?

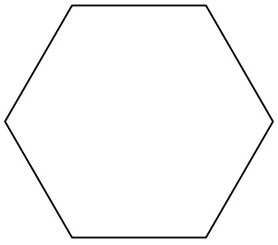
c Which holds more—half of a milliliter or half of a liter?

3 Write the correct symbol: < or > or =

$\frac{1}{4}$ ☐ $\frac{1}{10}$ $\frac{1}{4}$ ☐ $\frac{1}{2}$ $\frac{1}{4}$ ☐ 1

4 Choose one pair of fractions from problem 3. Discuss your answer. How do you know that one of the numbers is more than the other?

5 Divide the shape into the number of parts you need, and shade in the fraction $\frac{1}{3}$.



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NAME | DATE

Measurement & Fractions page 2 of 2

6 My friends and I are sharing a candy bar. I got $\frac{1}{4}$ of the candy bar, and my friend Abby got $\frac{1}{4}$ of it. How much is left? Explain your answer.

7 Tam filled his wading pool with 150 liters of water. Then 138 liters splashed out. How many liters are still in the pool? Write and solve an equation to represent the problem.

8 A bottle of Lilly's favorite soda contains 590 milliliters of soda, has 260 calories, and 70 grams of carbohydrates. Lilly is going to share the bottle with Maddy, so each will get half the bottle. Show your work. Include the unit of measurement in your answer.

a How many milliliters of soda will Lilly drink?

b How many calories will Maddy get?

c How many grams of carbohydrates will each girl get?

Use a separate sheet of paper to show your thinking using words, sketches, or numbers to solve the problems below.

9 **CHALLENGE** Chris is looking at a map to see how many miles it is from Golden Valley, where he lives, to Willow Lake, where his grandmother lives. The map uses a scale where $1\frac{1}{2}$ inches represents 12 miles.

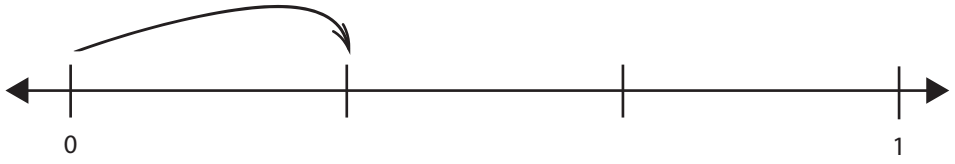
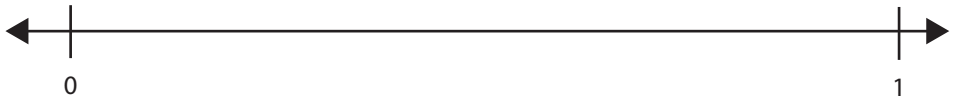
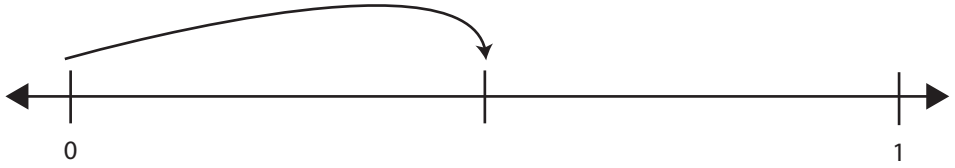
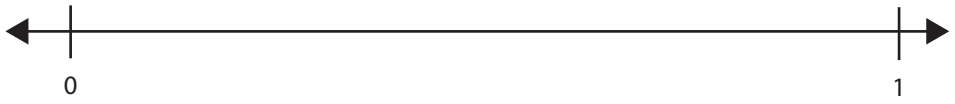
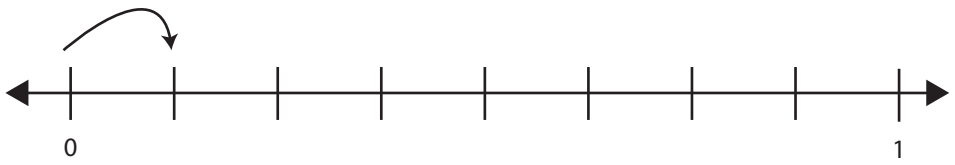
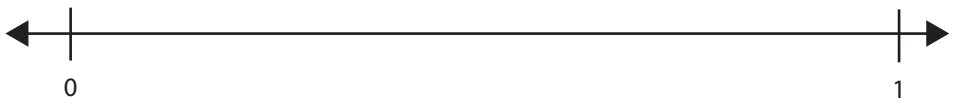
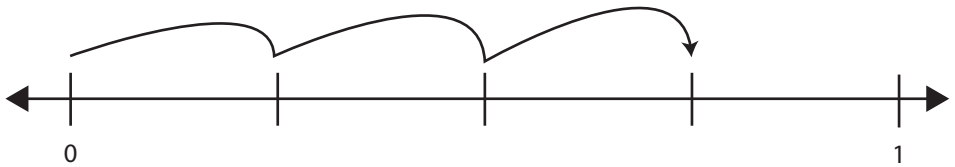
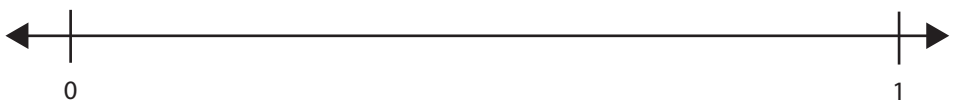
a Chris measured the map distance between the two towns and found that it is 6 inches. How many miles is it from Golden Valley to Willow Lake?

b Chris will take the train to Willow Lake. The train goes 60 miles an hour. If Chris takes the 2:20 train, about what time will he get to Willow Lake?

NAME | DATE

Fractions, Fractions & Fractions page 1 of 2

1 Complete the missing information below by writing in the fraction number or sketching the given fraction on a number line.

Fraction	Number Line
ex $\frac{1}{3}$	
a $\frac{1}{4}$	
b	
c $\frac{1}{6}$	
d	
e $\frac{2}{4}$	
f	
g $\frac{3}{3}$	

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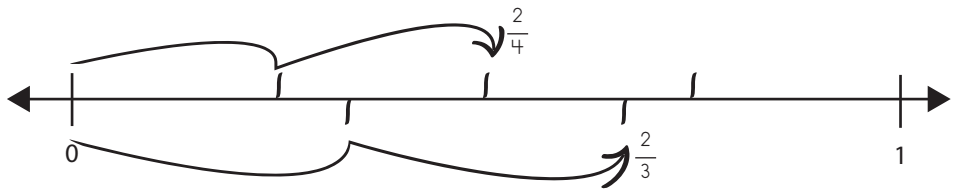
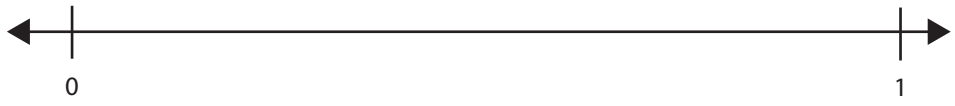
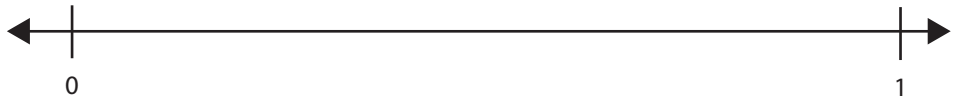
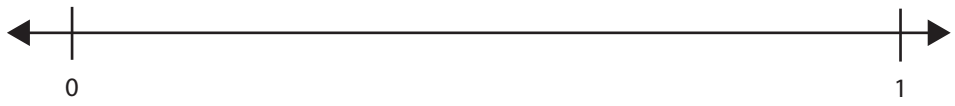
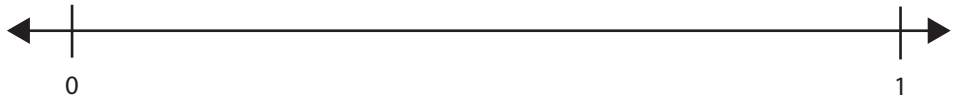
NAME | DATE

Fractions, Fractions & Fractions page 2 of 2

2 Use a < (less than), > (greater than) or = (equal) symbol to compare the following fraction pairs. Show your thinking by placing the fractions on the number line.

Fraction	Number Line
ex $\frac{2}{4} < \frac{2}{3}$	
a $\frac{1}{2} \quad \frac{6}{8}$	
b $\frac{3}{6} \quad \frac{1}{4}$	
c $\frac{3}{4} \quad \frac{6}{8}$	
d $\frac{2}{4} \quad \frac{1}{3}$	

NAME | DATE

Snack Time: Mass, Volume & Length page 1 of 2

1 Use numbers, words, or sketches to show your thinking for problems a, b, and c. Don't forget to include the unit of measurement in your answers.

a Carl ate an apple that had a mass of 184 grams. Then, he ate 196 grams of peanuts. What was the total mass of Carl's snack?

b Allegra drank 203 milliliters of water. Then, she drank 157 milliliters of lemonade. How many milliliters of liquid did Allegra drink in all?

c Mr. Alcott's class was eating licorice twists for a special treat. They ate 117 feet of licorice twists. Mrs. Austen's class was also eating licorice twists. They ate 79 feet of licorice twists. How many more feet of licorice twists did Mr. Alcott's class eat?

2 What unit do you use? Circle the unit you would use for each type of measurement.

Length	liters	kilograms	centimeters
Mass	grams	inches	milliliters
Volume	milligrams	milliliters	meters

(continued on next page)

NAME | DATE

Snack Time: Mass, Volume & Length page 2 of 2

Use numbers, words, or sketches to show your thinking for all these problems. Don't forget to include the unit of measurement in your answers.

3 Mike has a can of potato chips. There are 16 chips in one serving, and one serving has a mass of 28 grams.

a What is the mass of 3 servings?

b One serving of the potato chips has 150 calories. How many calories are in 3 servings?

c One serving of the potato chips has 160 milligrams of sodium. How many milligrams of sodium are in 3 servings?

4 One can of potato chips has 5 servings. Each serving has 15 grams of carbohydrates.

a How many grams of carbohydrates are in a whole can of potato chips?

b **CHALLENGE** How many cans of potato chips are needed for 14 people to each have 3 servings?

NAME | DATE

Time & Fraction Review page 1 of 2

1 Fill in the circle next to the time shown on each clock.

a

- ○ 1:45
- ○ 1:47
- ○ 2:47
- ○ 9:09

b

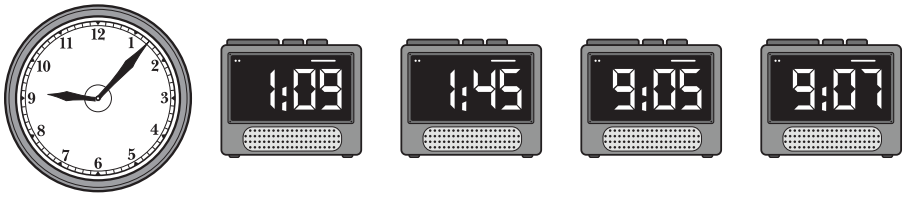
- ○ 3:40
- ○ 8:04
- ○ 8:19
- ○ 8:20

2 Write the time shown on each clock.

a _____ : _____

b _____ : _____

3 Circle the digital clock that shows the same time as this analog clock.



4 Taylor's mom said he and his brother could go to a movie while she went shopping. She dropped them off at the theater at 1:45 and said she would be back at 4:00 to get them. They had three choices of movies. Which movie could they see and be done by the time their mom came to get them? Show all your work. Hint: Remember that there are 60 minutes in an hour.

Movie	Start Time	Length (Including Previews)
Beetle goes to Town	1:55	130 minutes
Arctic Adventure	2:00	125 minutes
Rainy Day Dog	2:15	100 minutes

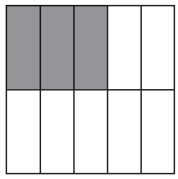
(continued on next page)

NAME | **DATE**

Time & Fraction Review page 2 of 2

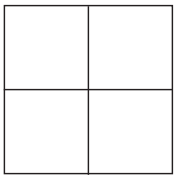
5 On each square, fill in a fraction of the square that is less than $\frac{1}{2}$. Then use the symbols >, =, or < to compare your fraction to $\frac{1}{2}$.

ex

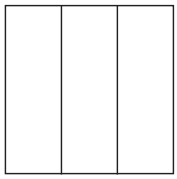


$\frac{3}{10} < \frac{1}{2}$

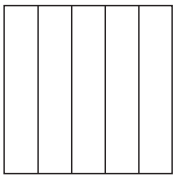
a



b

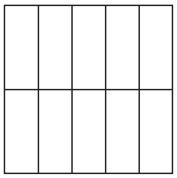


c

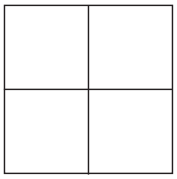


6 On each square, fill in a fraction of the square that is greater than $\frac{1}{2}$. Then use the symbols >, =, or < to compare your fraction to $\frac{1}{2}$.

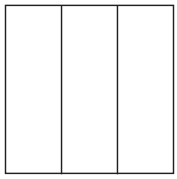
a



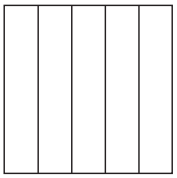
b



c

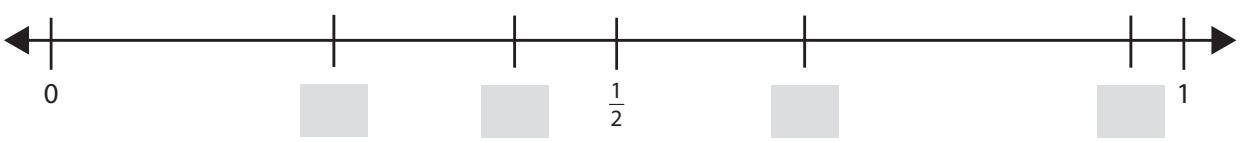


d



7 Write each of the following fractions where they belong on the number line below.

$\frac{9}{10}$	$\frac{1}{4}$	$\frac{2}{5}$	$\frac{2}{3}$



NAME | DATE

Sharing Money page 1 of 2

Show your work as you solve these problems.

1 Tom and Zara have a dog-walking business. They walk their customers' dogs together and share all the money they make equally.

a On Monday they made $4.00. How much does each of them get?

b On Tuesday they made $5.00. How much does Tom get?

c On Wednesday they made $5.50. How much does Zara get?

2 Lately, Tom and Zara and their little sister, Molly, have been incredibly lucky at finding money.

a On the way home from school on Thursday they found $3.00. How much does each one get if the three of them share equally?

b On Friday they found $6.00. How much does each one get?

3 **a** Tom, Zara, Molly, and their cousin, Kerry, are sharing $4.00. How much does Tom get?

b Now the four of them are sharing $8.00. How much does Zara get?

c If Tom, Zara, Molly, and Kerry share $2.00, how much does Molly get?

d If the four of them share $1.00, how much does Kerry get?

(continued on next page)

NAME | DATE

Sharing Money page 2 of 2

Show your work when you solve these problems.

4 Erin and Devon are playing a game. Erin has 42 points. If Devon had 14 more points, he'd have double the points Erin has. How many points does Devon have?

5 **CHALLENGE** The kids in Mrs. B's class did a survey about their favorite flavors of ice cream. One-fourth of the class likes strawberry the best. One-half of the class likes chocolate the best. The rest of the class, 7 kids, said vanilla is their favorite ice cream flavor. How many kids are in Mrs. B's class?

NAME | DATE

Multiply & Divide by 4 & 8

1 Fill in the missing numbers. Also write an equation for each picture.

ex 1 skateboard has 4 wheels. 1 × 4 = 4

ex 2 skateboards have 8 wheels. 2 × 4 = 8

a 3 skateboards have _____ wheels. _____

b 4 skateboards have _____ wheels. _____

c 5 skateboards have _____ wheels. _____

d 10 skateboards have _____ wheels. _____

2 My friends and I went to the skateboard park. We saw 16 wheels rolling up and down the ramps. How many skateboards did we see? Fill in the bubble beside the matching expression and fill in the answer.

- ○ 15 ÷ 3 = _____
- ○ 16 ÷ 2 = _____
- ○ 16 ÷ 4 = _____
- ○ 24 ÷ 6 = _____

(continued on next page)

NAME | DATE

Multiply & Divide by 4 & 8

3 Fill in the missing numbers. Also write an equation for each picture.

ex 1 octopus has 8 legs. 1 × 8 = 8

ex 2 octopuses have 16 legs. 2 × 8 = 16

a 3 octopuses have _____ legs. _____

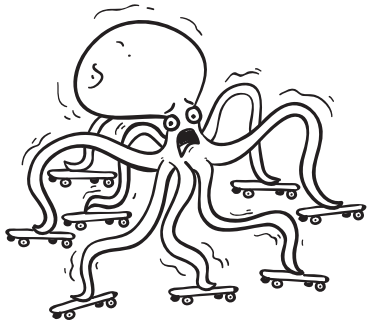
b 4 octopuses have _____ legs. _____

c 5 octopuses have _____ legs. _____

d 10 octopuses have _____ legs. _____

4 James and his brother went to the Sea Life Aquarium. When they got to the octopus tank, they saw 24 legs waving at them. How many optopuses did they see in the tank? Fill in the bubble beside the matching expression and fill in the answer.

- ◯ 24 ÷ 6 = _____
- ◯ 24 ÷ 8 = _____
- ◯ 8 ÷ 8 = _____
- ◯ 24 × 2 = _____



NAME | DATE

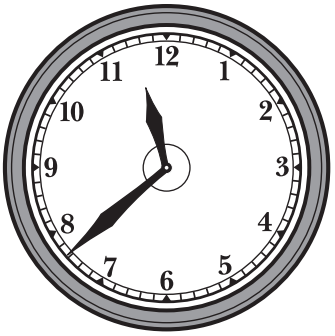
Telling Time to the Minute page 1 of 2

1 Fill in the circle next to the time shown on each clock.

a

- ◯ 8:30
- ◯ 7:27
- ◯ 5:35
- ◯ 7:05

b

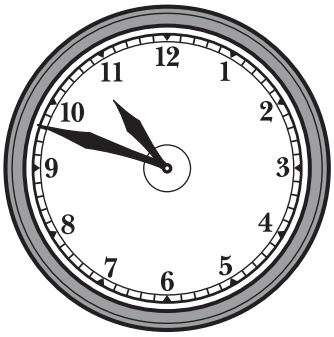


- ◯ 7:55
- ◯ 11:08
- ◯ 11:38
- ◯ 11:40

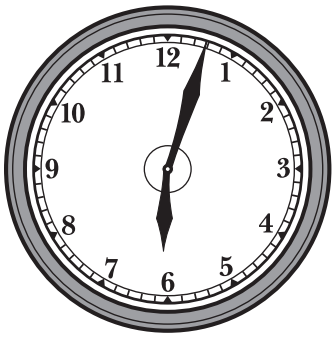
2 Write the time shown on each clock.

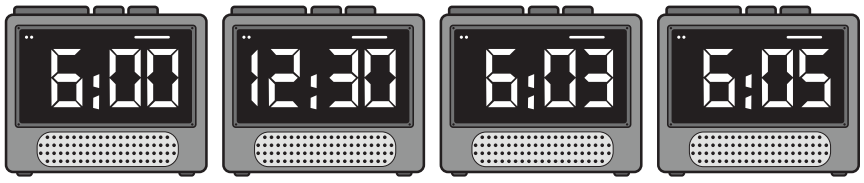
a _____ : _____

b _____ : _____



3 Circle the digital clock that shows the same time as this analog clock.





4 **CHALLENGE** What fraction of a clock is represented if the hands are at 12 and 3?

(continued on next page)

NAME | DATE

Telling Time to the Minute page 2 of 2

Show your work when you solve these problems.

5 Bike riders like to hold weekend events called centuries. A century, for a bike rider, is a ride that's 100 miles long. For people who don't want to ride 100 miles in one day, they have half-centuries and quarter-centuries.

a How many miles would you ride if you rode a half-century?

b How many miles would you ride if you rode a quarter-century?

6 Sarah is saving money to buy a microscope. She has saved $25 so far. That's $\frac{1}{3}$ of the cost of the microscope.

a How much does the microscope cost?

b **CHALLENGE** How much more money does Sarah need to save to have $\frac{1}{2}$ the cost of the microscope?

NAME | DATE

Multiplication & Division Review page 1 of 2

1 Complete the multiplication facts.

2 × 3	4 × 5	7 × 5	2 × 6	10 × 8	9 × 2	7 × 3
0 × 2	5 × 6	7 × 2	3 × 5	9 × 5	5 × 5	3 × 8
8 × 2	5 × 8	7 × 1	4 × 6	6 × 6	7 × 4	4 × 8

2 Complete the division facts.

10 ÷ 5 = _____ 9 ÷ 1 = _____ 20 ÷ 10 = _____

50 ÷ 5 = _____ 30 ÷ 5 = _____ 18 ÷ 2 = _____

3 Frank, Joe, and Carl went with their grandma to the bakery. She said that they could use the change she got back to buy mini-chip cookies to share equally. She bought a cake for $11 and two loaves of bread for $2.70 each. She paid with a $20 bill. The mini-chip cookies cost 40¢ each. How many cookies did each boy get? Show all your work.

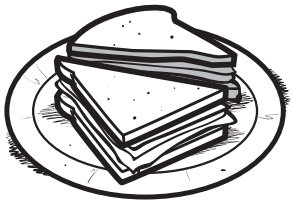
(continued on next page)

NAME | DATE

Multiplication & Division Review page 2 of 2

4 a Rosa and Clarice are making sandwiches for all the students in their class and their teacher. There are 23 students in their class. Each loaf of bread has 16 slices. They don't want to use the slices on the ends of the bread, because most students don't like them. If they make 1 sandwich for each student and for the teacher, how many loaves of bread will they need? Show all your work.

b Rosa and Clarice realized they would have some bread left over (not including the end pieces), so they decided to make sandwiches for the librarian, office staff, and custodian. How many sandwiches will they be able to make?



NAME | **DATE**

Multiplying by 2, 3, 4 & 8 page 1 of 2

1 Circle all the Doubles facts (×2) in blue. Then go back and do them.

2 Circle all the Doubles Plus One Set facts (×3) in red. Then go back and do them.

4 × 2	3 × 3	2 × 3	6 × 2	2 × 6
5 × 2	3 × 10	8 × 3	0 × 2	1 × 3
5 × 3	2 × 1	8 × 2	3 × 9	2 × 2
6 × 3	10 × 2	3 × 7	4 × 3	7 × 2

3 Now solve the division problems below. Use the multiplication facts above to help.

9 ÷ 3 = ___	16 ÷ 8 = ___	21 ÷ 7 = ___	14 ÷ 7 = ___	10 ÷ 5 = ___
12 ÷ 4 = ___	20 ÷ 10 = ___	15 ÷ 5 = ___	24 ÷ 8 = ___	6 ÷ 3 =___

(continued on next page)

NAME | DATE

Multiplying by 2, 3, 4 & 8 page 2 of 2

4 Circle all the Double-Doubles facts (×4) in blue. Then go back and do them.

5 Circle all the Double-Double-Doubles facts (×8) in red. Then go back and do them.

8 × 3	4 × 9	10 × 4	5 × 8	2 × 4
0 × 4	8 × 1	7 × 8	3 × 4	10 × 8
4 × 5	6 × 4	8 × 8	7 × 4	6 × 8
9 × 8	8 × 4	4 × 4	8 × 3	2 × 8

6 Now solve the division problems below. Use the multiplication facts above to help.

24 ÷ 3 = ____	16 ÷ 4 = ____	32 ÷ 4 = ____	56 ÷ 7 = ____	24 ÷ 6 = ____
48 ÷ 6 = ____	40 ÷ 10 = ____	28 ÷ 7 = ____	16 ÷ 2 = ____	40 ÷ 5 =____

7 **CHALLENGE** Use what you know about the basic multiplication and division facts to solve the combinations below.

4 × 20	3 × 30	5 × 50	6 × 70	8 × 80
80 ÷ 2 = ____	60 ÷ 3 = ____	90 ÷ 3 = ____	120 ÷ 4 ____	150 ÷ 5 = ____

NAME | DATE

More Number Puzzles page 1 of 2

1 Draw a line from each expression on the left to the equivalent expression on the right.

ex	3×5	5×1
a	6×10	2×8
b	$20 \div 4$	$30 \div 2$
c	16×1	2×4
d	$24 \div 3$	15×2
e	6×4	8×3
f	6×5	2×30

2 Write an equal (=), greater than (>), or less than (<) sign in the boxes to make each equation true.

ex 2×5 $\langle$ 3×4

a $12 \div 4$ ☐ 3×1

b 5×1 ☐ $12 \div 3$

c 8×2 ☐ 4×4

d $25 \div 5$ ☐ 4×2

e 8×4 ☐ 12×2

f $20 \div 2$ ☐ 3×5

3 Dani says you can show the solution to $2 \times 5 \times 3$ with one equation:
$2 \times 5 = 10 \times 3 = 30$

Maya says you have to use two equations:
$2 \times 5 = 10$ *and* $10 \times 3 = 30$

a Which student is correct? _____

b Explain your answer.

(continued on next page)

NAME | DATE

More Number Puzzles page 2 of 2

4 Andy had 30 marbles. He gave half of his marbles to his 3 cousins. His 3 cousins divided the marbles equally.

Jan had 48 marbles. She gave half of her marbles to her 4 cousins. Her 4 cousins divided the marbles equally.

a Whose cousins got more marbles, Andy's cousins or Jan's cousins? _____

b Use labeled sketches, numbers, or words to prove your answer.

5 Tim went to the pet store. He saw 3 cages of mice. There were 4 mice in each cage. He also saw 2 cages of hamsters. There were 6 hamsters in each cage. How many animals did Tim see in all?

a Circle the expression that best represents this problem.

$(3 \times 2) + (6 \times 4) = a$ $(3 \times 4) + (2 \times 6) = a$ $(4 \times 1) + (2 \times 3) = a$

b Then find the answer. Show your work.

6 **CHALLENGE** Use the digits 0–9 each just one time. Write them in the boxes below. Make each multiplication problem correct.

0 1 2 3 4 5 6 7 8 9

$$\square \times 6 = 36 \qquad 2 \times \square = \square 8 \qquad \square \times 4 = 2\square \qquad \square \times \square = 12 \qquad 9 \times \square = \square\square$$

NAME | DATE

More Division Practice page 1 of 2

1 Fill in the blanks.

a $4 \times$ _____ $= 24$ $\quad$ $24 \div 4 =$ _____

b $36 \div 9 =$ _____ $\quad$ $9 \times$ _____ $= 36$

c _____ $\times 5 = 35$ $\quad$ $35 \div$ _____ $= 5$

d $21 \div$ _____ $= 7$ $\quad$ _____ $\times 7 = 21$

e $4 \times 3 =$ _____ $\quad$ _____ $\div 4 = 3$

f _____ $= 9 \times 6$ $\quad$ _____ $\div 9 = 6$

g $403 + 296 =$ _____

h $403 - 296 =$ _____

2 Solve the story problems below. Show your thinking in words, numbers, or sketches for each one. Be sure to label your answers with the correct units.

a Mr. Bee bought 3 jars of honey, which weighed a total of 24 ounces. If all the jars weighed the same amount, how much did each jar weigh?

Each jar weighed _____.

b Mrs. Bee also bought 24 ounces of honey. She put 3 ounces of honey into several small jars. How many jars did she use?

Mrs. Bee used _____.

3 Compare problems 2a and 2b. How are they alike? How are they different?

(continued on next page)

NAME | DATE

More Division Practice page 2 of 2

4 Mrs. Moth picked 8 flowers. Each flower had 6 petals.

a How many petals are on the flowers that Mrs. Moth picked? Show your work.

b Write an equation that describes problem 4a. _____

5 **CHALLENGE** Later, Mrs. Moth picked 24 more flowers. Six of them each had 9 petals, 7 of them each had 8 petals, 5 of them each had 3 petals, and the rest each had 10 petals.

a How many flowers had 10 petals? Show your work.

b How many petals were on all 24 of the flowers that Mrs. Moth picked? Show your work.

NAME | DATE

Division & Fraction Review page 1 of 2

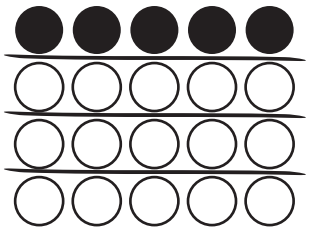
1 Complete the division facts. They may help you with the next problem.

$20 \div 4 =$ _____ $18 \div 3 =$ _____ $15 \div 3 =$ _____

$16 \div 4 =$ _____ $16 \div 2 =$ _____ $20 \div 5 =$ _____

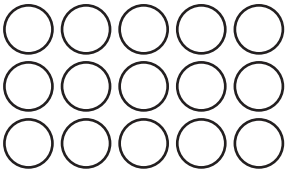
2 Divide each set into equal groups. Shade in some circles as directed.

ex Shade in $\frac{1}{4}$ of the circles.



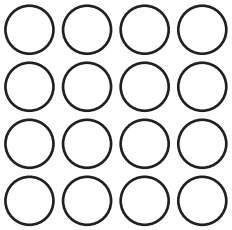
a Shade in $\frac{1}{3}$ of the circles.

Hint: Divide the set into 3 equal groups first.



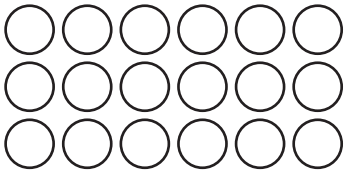
b Shade in $\frac{1}{2}$ of the circles.

Hint: Divide the set into 2 equal groups first.



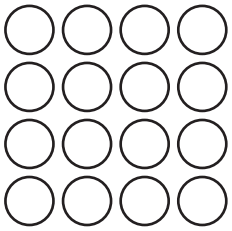
c Shade in $\frac{2}{3}$ of the circles.

Hint: Divide the set into 3 equal groups first.



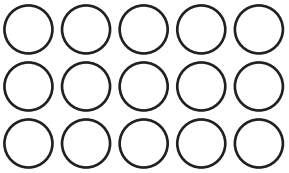
d Shade in $\frac{2}{4}$ of the circles.

Hint: Divide the set into 4 equal groups first.



e **CHALLENGE** Shade in $\frac{3}{5}$ of the circles.

Hint: Divide the set into 5 equal groups first.



3 **a** Find two fractions above that are equal. Write them here: _____ = _____

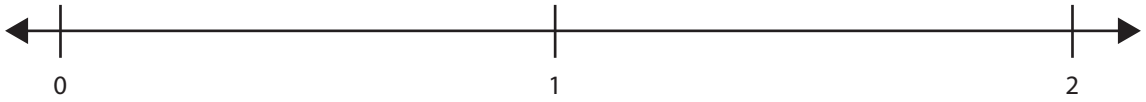
b How do you know these fractions are equal?

(continued on next page)

NAME | DATE

Division & Fraction Review page 2 of 2

4 Mark and label each of these fractions on the number line: $\frac{1}{2}$, $1\frac{1}{4}$, $1\frac{1}{3}$, $1\frac{3}{4}$.



5 David, Mary, Claire, and Mark were picking strawberries in their grandparents' garden. They had each picked the same number of strawberries when their grandma gave everyone 2 more strawberries. Now the 4 kids had 36 strawberries in all.

a How many strawberries did each child have before Grandma gave them more? Show your work.

b Mark the ***two*** equations below that could help you solve the problem.

- ○ $(s + 2) \times 4 = 36$
- ○ $2 \times 4 + s = 36$
- ○ $36 - (2 \times 4) = s$
- ○ $(36 \div 4) - 2 = s$

6 **CHALLENGE** The next day the kids picked 124 strawberries in all. They gave $\frac{1}{4}$ of the strawberries to their neighbor, and their mother used $\frac{2}{4}$ of the strawberries in a pie. The rest of the strawberries were saved for snacks.

a How many strawberries went into the pie? Show your work.

b How many strawberries did the family have for snacking on? Show your work.

NAME | DATE

Unit 5 Review page 1 of 2

1 Complete the multiplication facts.

7 × 2	6 × 3	8 × 3	4 × 4	7 × 10	9 × 5	3 × 9
5 × 6	8 × 6	7 × 0	4 × 7	7 × 8	4 × 9	8 × 9

2 Solve the division facts. (Hint: Use the multiplication facts above to help.)

16 ÷ 4 = _____ 28 ÷ 4 = _____ 45 ÷ 5 = _____ 30 ÷ 5 = _____

18 ÷ 3 = _____ 24 ÷ 3 = _____ 14 ÷ 2 = _____ 70 ÷ 10 = _____

3 Fill in the missing number in each fact. Then write a related division equation.

ex	4 × 5 = 20	20 ÷ 5 = 4
a	____ × 3 = 21	_____ ÷ _____ = ____
b	5 × ____ = 25	_____ ÷ _____ = ____
c	____ × 7 = 14	_____ ÷ _____ = ____

4 Write the answer to each equation below, and then write a story problem to match.

6 × 4 = _____	30 ÷ 3 = _____

(continued on next page)

NAME | DATE

Unit 5 Review page 2 of 2

5 Solve each of the story problems below. Use another piece of paper if you need more room. Use numbers, labeled sketches, or words to show your thinking. Then write an equation to represent the problem and the answer.

a The pet store just got 32 new turtles. Elena is putting the turtles into terrariums. She puts 4 turtles in each terrarium. How many terrariums does she use?

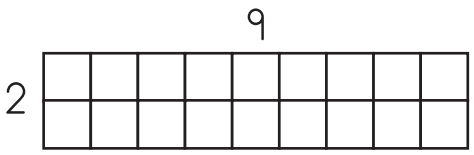
My equation: _____

b The pet store has 9 puppies. Each puppy drinks 6 cups of water every day. How much water do all 9 of the puppies drink in one day?

My equation: _____

6 The rectangles below have already been marked off in square units. Record the dimensions of each and then find the area. Write two equations to show how you found the area of each.

ex

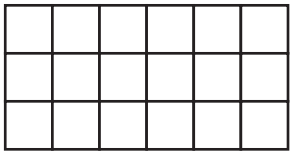


Area = 18 square units

Equations:

9 + 9 = 18 2 × 9 = 18

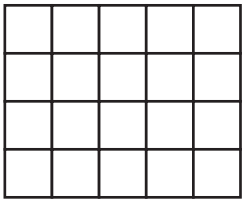
a



Area = _____ square units

Equations:

b



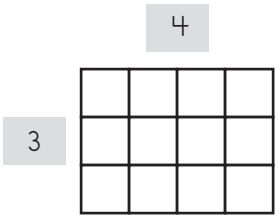
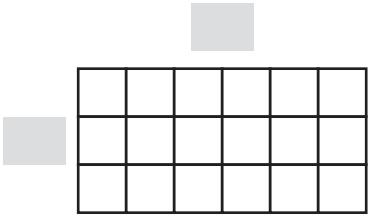
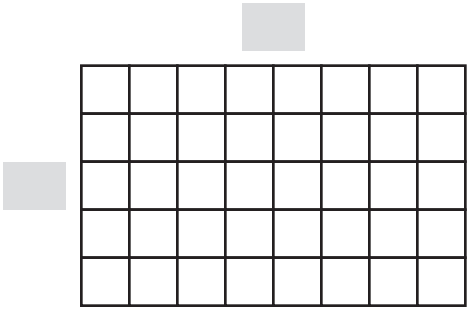
Area = _____ square units

Equations:

NAME | DATE

Playing with Area page 1 of 2

1 Label the dimensions and area of each rectangle. Write two (or more) different equations to show how someone could find the area.

ex  Area = 12 square units	Equations: 3 + 3 + 3 + 3 = 12 4 + 4 + 4 = 12 3 × 4 = 12 (3 × 2) + (3 × 2) = 12
a  Area = _____ square units	Equations:
b  Area = _____ square units	Equations:

2 Fill in the missing number in each fact. Then write a related division equation.

ex	3 × 6 = 18	18 ÷ 3 = 6
a	____ × 6 = 48	___ ÷ ___ = ___
b	3 × ____ = 24	___ ÷ ___ = ___
c	4 × ____ = 28	___ ÷ ___ = ___
d	____ × 9 = 45	___ ÷ ___ = ___
e	9 × ____ = 90	___ ÷ ___ = ___
f	8 × ____ = 32	___ ÷ ___ = ___

(continued on next page)

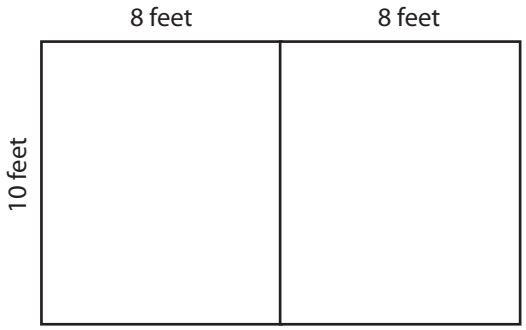
NAME | DATE

Playing with Area page 2 of 2

3 Frank bought a rug for his room. It is 5 feet by 3 feet. What is the total area of the rug in square feet? Use labeled sketches, numbers, or words to solve this problem. Show all your work.

Area = _____ square feet

4 The tumbling mats in the gym are each 10 feet by 8 feet. Miranda pushed 2 of the mats together so she would have enough room to do her routines. Use the sketch below to help find the total area of the 2 mats in square feet. Show your work.



Area = _____ square feet

5 **CHALLENGE** Andrea got some free carpet squares at a carpet store. Each carpet square has an area of 1 square foot. She got enough blue squares to cover a space on her bedroom floor that is 2 feet by 8 feet. She got enough red squares to cover another space on her bedroom floor that is 5 feet by 8 feet.

a How many total square feet can be covered if Andrea puts these carpet squares together? Show your work. Use another piece of paper if you need more room.

Area = _____ square feet

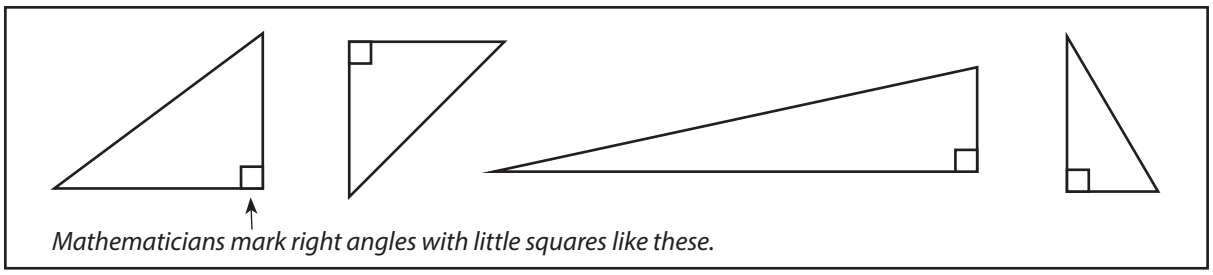
b There are two equations below you could use to help solve this problem. Mark both of them.

- ○ $(2 + 8) \times (5 + 8) = a$
- ○ $(2 + 5) + 8 = a$
- ○ $(2 \times 8) + (5 \times 8) = a$
- ○ $(2 + 5) \times 8 = a$

NAME | DATE

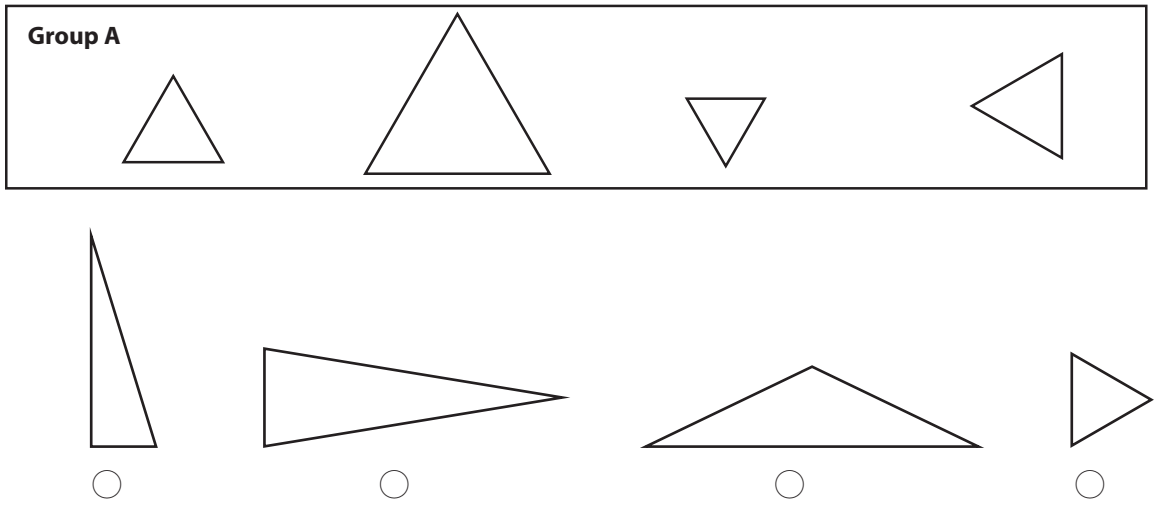
Triangles & Two-Digit Addition Review page 1 of 2

1 What is the same about all of these triangles?



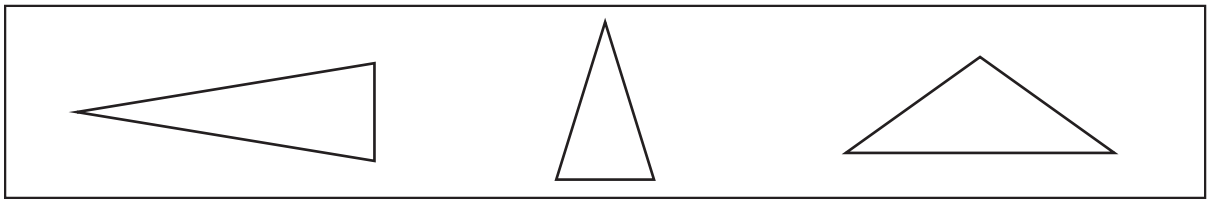
All the triangles _____

2 **a** All of the triangles in group A have something in common. Fill in the circle next to the triangle that belongs with them.



b How do you know the triangle you picked belongs in group A?

3 What do these three triangles have in common?



All of the triangles _____

(continued on next page)

NAME | DATE

Triangles & Two-Digit Addition Review page 2 of 2

4 Add each pair of numbers. Show all your work.

60 + 35 = _____ 27 + 61 = _____ 36 + 45 = _____

53 + 64	48 + 93	42 + 68	79 + 78	98 + 19
65 + 97	58 + 72	21 + 99	95 + 83	67 + 92

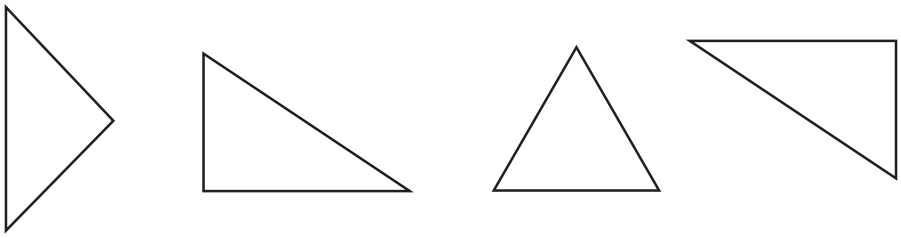
5 **CHALLENGE** Fill in the missing digits.

□8 + 6□ = □03	□4 + 5□ = □43	□□ + 77 = 106	87 + □□ = 135

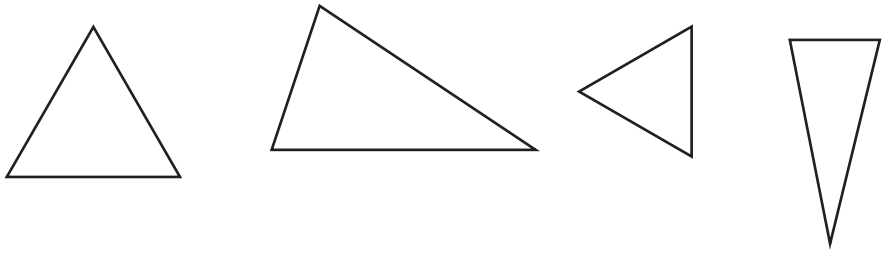
NAME | DATE

Triangles page 1 of 2

1 Circle the two triangles that are congruent. *Congruent* means exactly the same shape and size.



2 Circle the two triangles that are similar. *Similar* means exactly the same shape, but not necessarily the same size.



3 Add.

229	448	124	180	229	99	199
+ 71	+ 326	+ 255	+ 352	+ 71	+ 216	+ 699

4 Subtract.

162	148	97	108	203	261	448
– 31	– 23	– 65	– 28	– 87	– 15	– 150

5 Round each number to the nearest 10 and the nearest 100.

Number	Nearest 10	Nearest 100
342		
689		

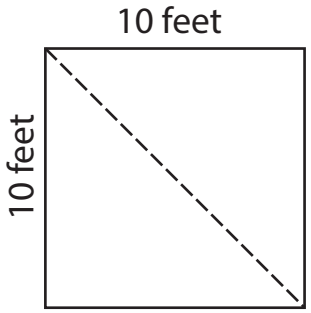
Number	Nearest 10	Nearest 100
837		
906		

(continued on next page)

NAME | DATE

Triangles page 2 of 2

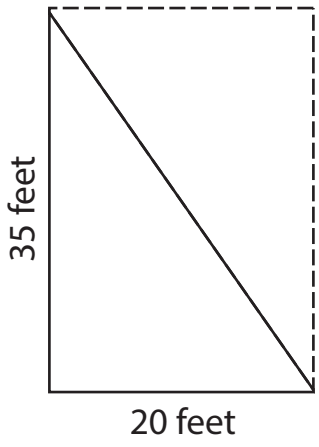
6 Angie and Kara share a bedroom. They've been having trouble agreeing on who is doing her fair share of the cleaning. So they decided to lay a rope on the floor to divide the room in half. Each girl is responsible for keeping half the room clean and organized.



a The area of the whole room is _____ square feet. Show your work.

b The area of each girl's part of the room is _____ square feet. Show your work.

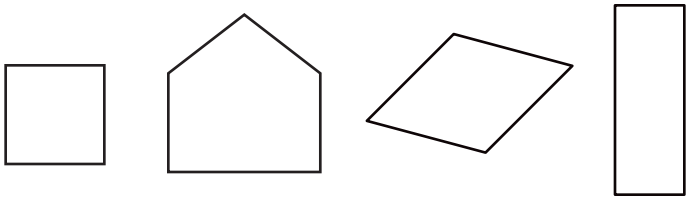
7 **CHALLENGE** Susie and her mother are planting a flower garden. It will be in the shape of a right triangle. They drew a diagram of the triangle and labeled the dimensions. How much area will the flower garden cover? Show your work.



NAME | DATE

More Polygons & Time page 1 of 2

1 Circle the quadrilaterals.



2 Draw the following polygons on the grids below. Use a ruler to help make your lines straight.

a A polygon with 5 sides and 1 right angle

b A quadrilateral with exactly 1 pair of parallel sides

c A quadrilateral with 2 acute angles

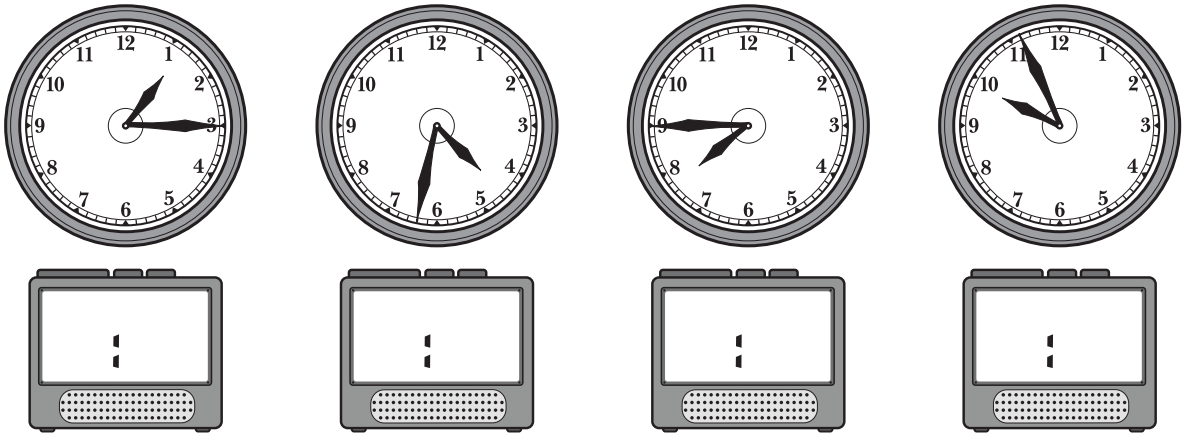
d A polygon with 3 sides and 1 right angle

(continued on next page)

NAME | DATE

More Polygons & Time page 2 of 2

3 Write the time shown on each clock.



4 Brad likes to bake brownies. It takes him 15 minutes to mix up all the ingredients. Then the brownies need to bake for 25 minutes. After that they have to cool off for 7 minutes. How long does it take Brad to have brownies ready to eat? Show your work.

5 **CHALLENGE** Kevin is building a large model of a soccer ball out of foam board. A soccer ball is made of 20 hexagons and 12 pentagons. It takes Kevin 6 minutes to measure and cut each hexagon, and it takes him 5 minutes to measure and cut each pentagon.

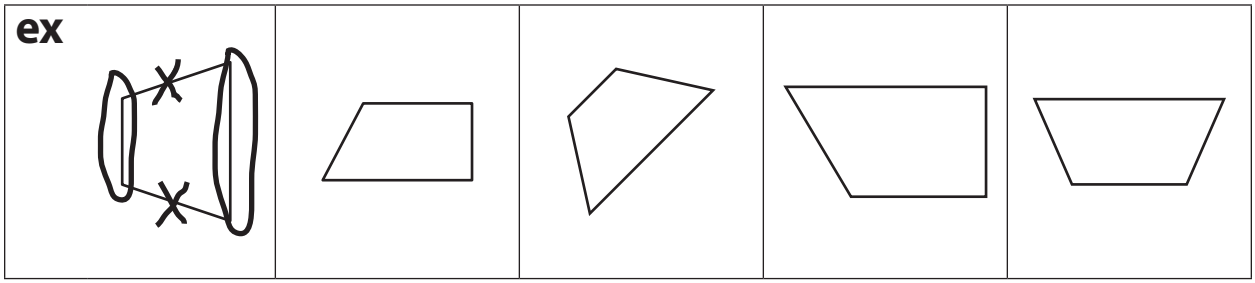
a It will take Kevin _____ minutes to make all the pieces. Show all your work.

b It will take Kevin _____ hours to make all the pieces. Show all your work.

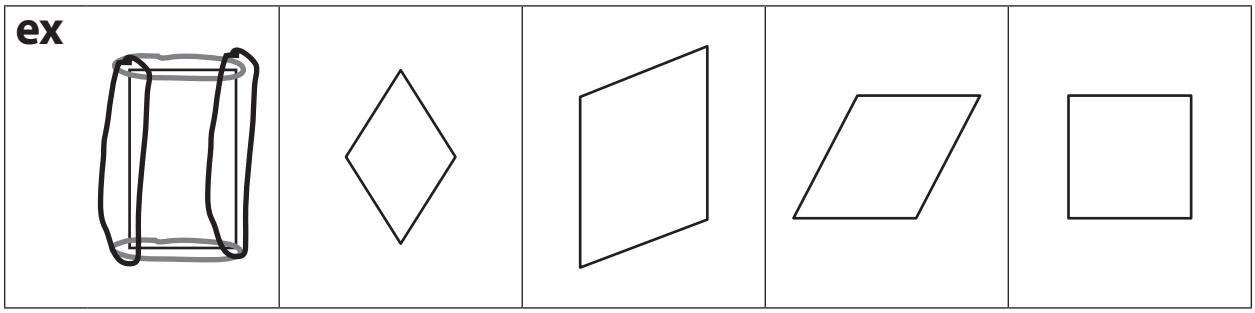
NAME | DATE

Sorting & Identifying Quadrilaterals page 1 of 2

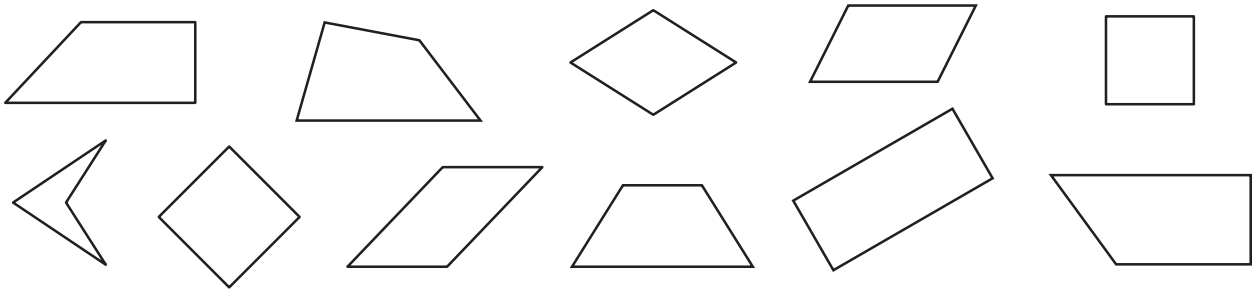
1 A trapezoid is a quadrilateral with exactly 1 pair of parallel sides. Circle the 2 sides that are parallel to each other on each of the trapezoids below. Mark the 2 sides that are not parallel to each other with an x on each of the trapezoids below.



2 A parallelogram is any quadrilateral with 2 pairs of parallel sides. On each of the parallelograms below, circle 1 pair of parallel sides in blue. Circle the other pair of parallel sides in red.



3 Find all the trapezoids below. Color them orange. Find all the parallelograms below. Color them purple. When you finish, you should have 2 quadrilaterals that are not colored.



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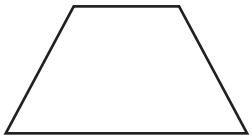
NAME | DATE

Sorting & Identifying Quadrilaterals page 2 of 2

4 a This shape is a



○ trapezoid ○ square

○ parallelogram ○ rectangle

b How do you know that the shape is *not* a parallelogram? Use labeled sketches, numbers, or words to explain. .

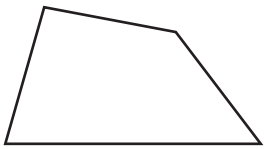
5 a This shape is a

○ trapezoid ○ square

○ parallelogram ○ rectangle

b How do you know that the shape is *not* a rectangle? Use labeled sketches, numbers, or words to explain.

6 a This shape is a



○ trapezoid ○ square

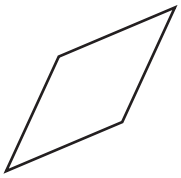
○ quadrilateral ○ rectangle

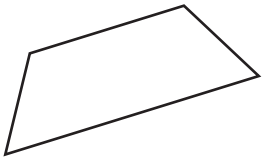
b How do you know that the shape is *not* a trapezoid? Use labeled sketches, numbers, or words to explain.

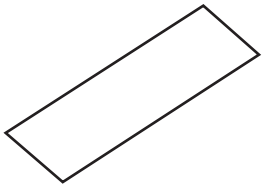
NAME | DATE

Quadrilateral Matchup page 1 of 2

1 Draw a line connecting each quadrilateral with its description.







Trapezoid
a quadrilateral with exactly 1 pair of parallel sides

Parallelogram
a quadrilateral with 2 pairs of parallel sides opposite each other

Quadrilateral
any polygon with 4 sides

Rhombus
a parallelogram with 4 congruent sides

2 Solve the following:

6 × 3 = ☐	8 × ☐ = 48	9 × 7 = ☐	20 × 3 = ☐	7 × ☐ = 49	20 × 8 = ☐	5 × 7 = ☐
30 × 2 = ☐	☐ × 9 = 54	9 × 4 = ☐	☐ × 5 = 25	8 × 8 = ☐	☐ × 4 = 32	3 × 7 = ☐

(continued on next page)

NAME | DATE

Quadrilateral Matchup page 2 of 2

3 Oranges cost 25 cents for $\frac{1}{2}$ kilogram. How much would 8 kilograms of oranges cost?

4 **CHALLENGE** Julia wants to bring watermelon for the third grade picnic. Seedless watermelon costs 39 cents for $\frac{1}{2}$ kilogram. One serving of watermelon weighs about 150 grams. There will be 60 people at the picnic.

a How many kilograms of watermelon will Julia need to buy? (Remember, there are 1,000 grams in one kilogram.)

b How much will that watermelon cost?

NAME | DATE

Perimeter Problems page 1 of 2

1 For the quadrilaterals below, measure in centimeters and label as many sides as you need to find the perimeter. Then write an equation to show the perimeter of the quadrilateral, and fill in the answer at the bottom of the box.

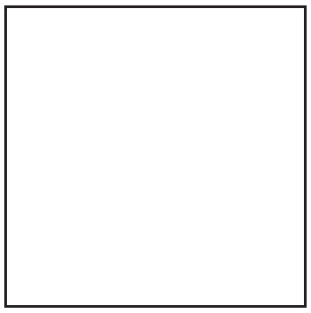
ex

(2 × 6) + (2 × 2) = 12 + 4

12 + 4 = 16 cm

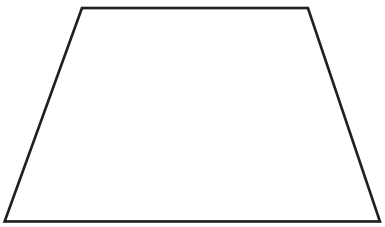
Perimeter = 16 cm

a



Perimeter =

b



Perimeter =

c

Perimeter =

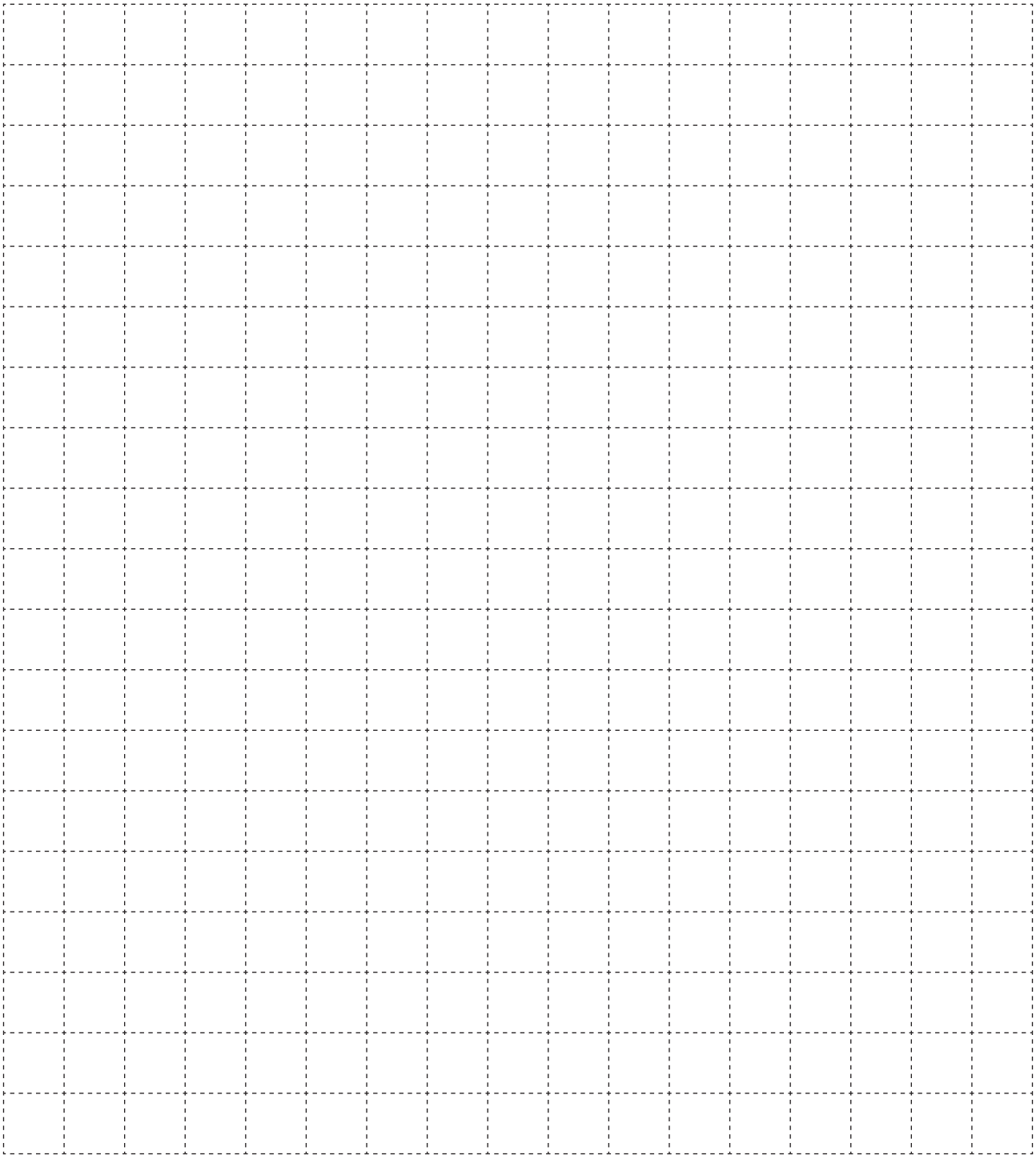
2 Sarah says you only need to measure one side of a square to figure out its perimeter. Do you agree with Sarah? Why or why not? Use labeled sketches, numbers, or words to explain your answer.

(continued on next page)

NAME | DATE

Perimeter Problems page 2 of 2

3 Jacob and his dad are going to make a rabbit pen in the backyard. They have 16 feet of fencing. Help Jacob draw some plans. Sketch and label at least 4 different rectangles with a perimeter of 16 centimeters on the centimeter grid paper below. Write an equation under each sketch to show that the perimeter is actually 16 centimeters. Put a star beside the sketch you think would be best for a rabbit pen.



NAME | DATE

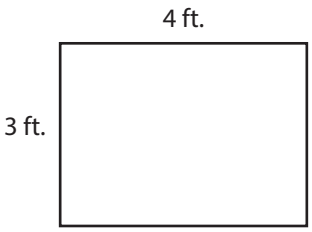
Sandbox & Garden Problems page 1 of 2

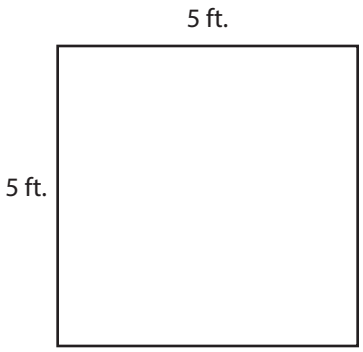
1 a Mrs. Smith made a sandbox for her kindergarten students. It is 60 inches wide and 125 inches long. Make a labeled sketch of the sandbox below.

b What is the perimeter of the sandbox? Use your sketch to help solve the problem.

The perimeter of the sandbox is _____ inches.

2 Mai and her sister Keiko were planting a garden. They made two beds to plant flowers. One was 4 feet by 3 feet. The other was 5 feet by 5 feet. They want to outline the beds with bricks that are each 1 foot long. How many bricks will they need to outline both beds? Show all of your work.





They will need _____ bricks to outline both beds.

(continued on next page)

NAME | DATE

Sandbox & Garden Problems page 2 of 2

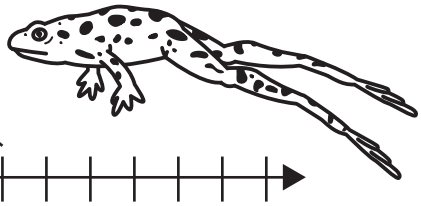
3 DJ Jumpy Frog, who lives in the sisters' garden, says you can also use the number line to show and solve division problems. He says to solve 14 ÷ 2, you start at 14. Then you take equal hops of 2 all the way back to 0. If you count the number of hops, you get the answer.

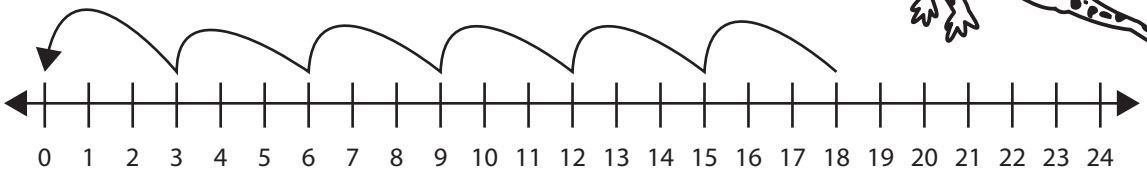
a How many hops did it take DJ to get back to 0? _____

b Did he get the right answer to 14 ÷ 2? _____

c Why did he take hops of 2 instead of 3?

4 Here is another number line picture from DJ.



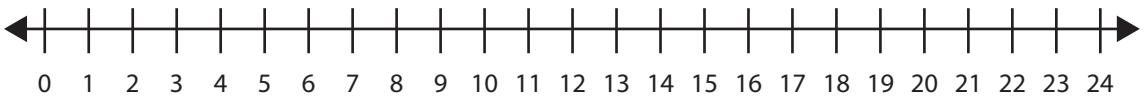


Write a division equation to go with DJ's picture.

_____ ÷ _____ = _____

5 Use the number lines below to show and solve division problems a and b.

a 12 ÷ 3 = _____



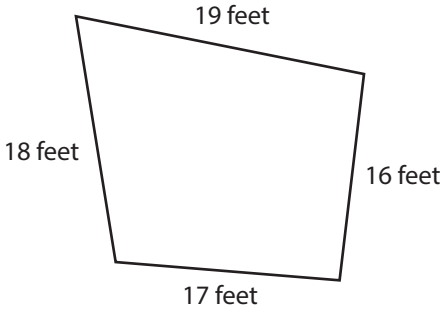
b 24 ÷ 4 = _____

NAME | DATE

Area & Perimeter Puzzles page 1 of 2

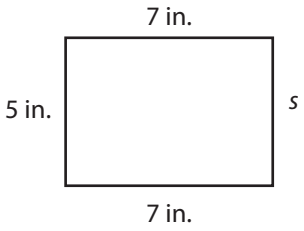
Show your work for each of the problems below, and label your answers with the correct units.

1 Find the perimeter of this quadrilateral.



Perimeter = _____

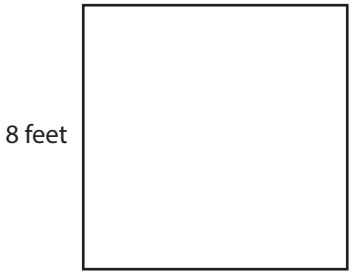
2 The perimeter of this rectangle is 24 inches. Use that information to find the length of the side marked *s* and the area of the rectangle.



Side s = _____

Area = _____

3 The sandbox at the park is perfectly square. Use the information in the picture below to find the perimeter and the area of the sandbox.



Perimeter = _____

Area = _____

(continued on next page)

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Area & Perimeter Puzzles page 2 of 2

4 Jake and his mom run laps around the soccer field in their neighborhood. The field is 100 yards by 60 yards, and they run 4 laps around the field each time. When they went to visit Jake's uncle, they did laps around the kids' soccer field in his neighborhood. The field was 30 yards by 55 yards, and they ran 8 laps around it. Did they run more at Jake's uncle's house or in their own neighborhood? Exactly how much more? Show all your work.

5 **CHALLENGE** A rectangle has a perimeter of 36 feet. It is twice as long as it is wide. What are the dimensions of the rectangle? Show all your work.

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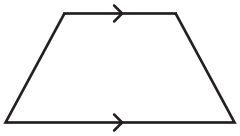
Unit 6 Review page 1 of 2

A *quadrilateral* is a shape with 4 sides. Here are some different kinds of quadrilaterals.

Trapezoid: a quadrilateral with exactly 1 pair of parallel sides

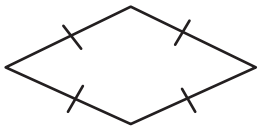


Mathematicians use little arrows like these to show that two sides are parallel.

Rectangle: a quadrilateral with 2 pairs of parallel sides and 4 right angles

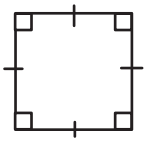
Mathematicians mark right angles with little squares like these.

Rhombus: a quadrilateral with 4 sides that are all the same length

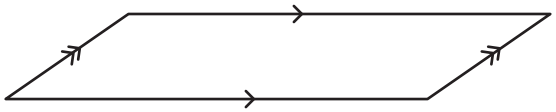


When the sides of a shape are marked with little tic-marks like these, it tells you that the sides are equal.

Square: a quadrilateral with 4 right angles and 4 sides that are all the same length



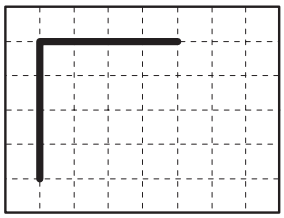
Parallelogram: a quadrilateral with 2 pairs of parallel sides



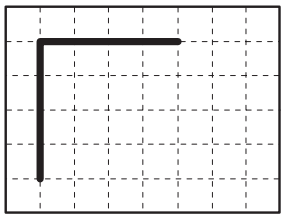
When a shape has more than one pair of parallel sides, mathematicians use more arrow heads to show which pairs of sides are parallel.

1 Draw in the missing sides to complete each quadrilateral.

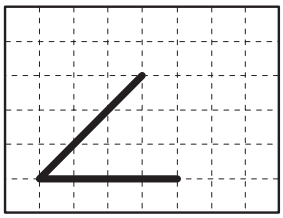
a square



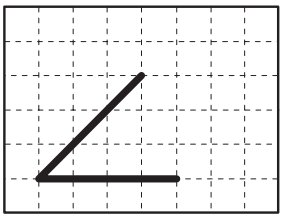
b trapezoid



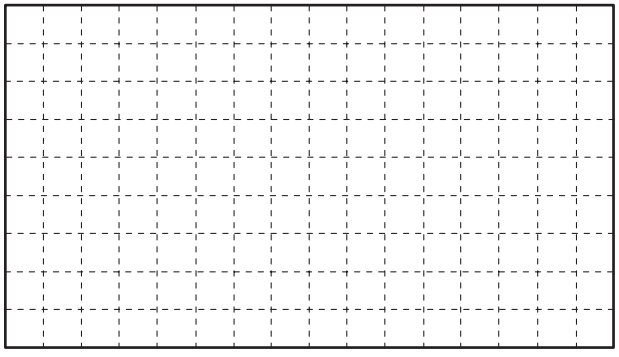
c parallelogram



d trapezoid



2 Mayra says that squares and rectangles are parallelograms too, but rhombuses are not. Is she correct? Explain your answer. Use the grid if you want to.



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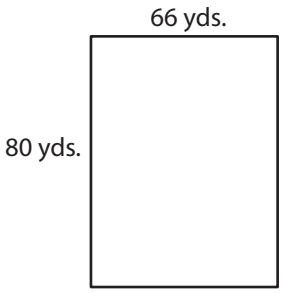
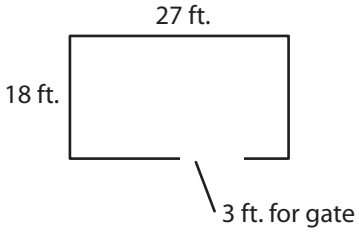
3 a When Danny has lots of extra energy, his mom tells him to do laps around the block. His block is 66 yards wide and 80 yards long. How many yards are in one lap around Danny's block? Show all your work.



b **CHALLENGE** There are 1,760 yards in a mile. How many full laps would Danny have to run around the block to run a mile? Show all your work.

4 Danny and his mom are building a fenced region for their dog in the backyard. The region measures 18 ft. by 27 ft. The gate they plan to put in is 3 feet wide. How many feet of fencing will they need? Show all your work.



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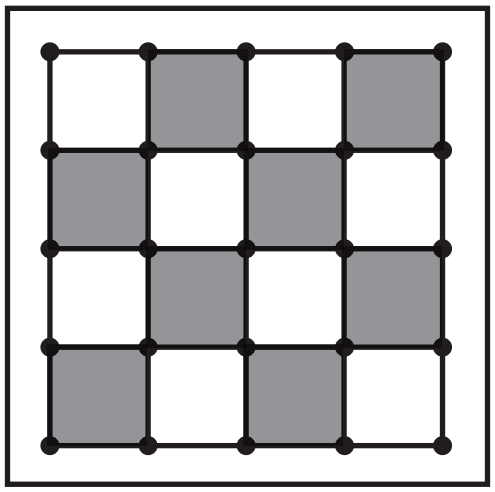
Patchwork Fractions & Story Problems page 1 of 2

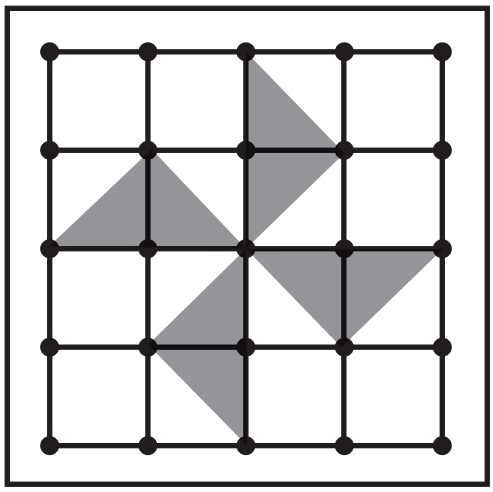
1 Mark all the fractions that describe the shaded part of each geoboard patchwork quilt block, if the geoboard is 1 square unit.

a



$\frac{2}{8}$ $\frac{1}{2}$ $\frac{2}{4}$ $\frac{4}{8}$

b



$\frac{2}{8}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{4}{16}$

2 Choose two fractions that you marked in part a above, and explain why they are equivalent.

3 Fill in the bubble next to the equation that will help you solve each word problem. Then solve the problem. Show all your work.

a Kara built a pen for her rabbit. It is 3 feet by 6 feet. What is the area of the pen?

○ $3 + 6 = a$ ○ $3 \times 6 = a$ ○ $6 - 3 = a$ ○ $6 \div 3 = a$

The rabbit's pen has an area of _____ square feet.

b Steve's dog buried 27 bones. That's 3 times as many bones as David's dog buried. How many bones did David's dog bury?

○ $3 + 27 = b$ ○ $3 \times 27 = b$ ○ $27 \div 3 = b$ ○ $27 - 3 = b$

David's dog buried _____ bones.

(continued on next page)

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Patchwork Fractions & Story Problems page 2 of 2

4 Lee wanted to put a fence around his vegetable garden. His brother asked him to put a fence around his garden, too. Lee's garden was 5 feet wide and 10 feet long. His brother's garden was 6 feet wide and 7 feet long. How many feet of fencing will Lee need? Show all your work.

5 **CHALLENGE** After Lee fenced in the two gardens, his neighbor gave him another 26 feet of fencing. Lee and his brother decided to make a rectangle-shaped garden for their little sister.

a Draw and label 4 different ways 26 feet of fencing could be used to outline a rectangle.

b Circle the rectangle that you think would make the best garden and explain why.

