

*Saxon Math 2*

**Extension and Enrichment**

**Student Problems**

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 10-1**  
**Problem-Solving Worksheet 10A**

Kayne placed his 5 shirts in his drawer. He placed the green shirt in the drawer first. Then he stacked the yellow, pink, black, and white shirts in the drawer. The yellow shirt is not on top. The pink shirt is above the white shirt. The black shirt is under the white shirt. The yellow shirt is on top of the green shirt. Draw a picture to show the stack and which shirt Kayne placed on top.

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 12**  
**Guided Class Practice, Problem 1**

There were 8 children on the bus. At the next bus stop, 3 more children got on the bus. At the next stop, 1 more child got on the bus. How many children are on the bus now?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 13***  
**Guided Class Practice, Problem 2**

Write the number that is one more than 39. Write the number that is 3 less than 30.

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 17***  
**Guided Class Practice, Problem 3**

A shape pattern is triangle, square, triangle, circle, triangle, square, triangle, circle, and so on. If the shape pattern keeps repeating, what will the 30<sup>th</sup> shape be? The triangles are in the 1, 3, 5, and 7 positions. What type of numbers are these? The squares and circles are in the 2, 4, 6, and 8 positions. What type of numbers are these?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 18***  
**Guided Class Practice, Problem 5**

During this school year Courtney has read 8 books. Last week she read 3 more books. Has she read an even or an odd number of books altogether?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 20-1***  
**Problem-Solving Worksheet 20A**

Cecilia has a different after school activity every school day. She goes to her grandmother's house, has soccer practice, ballet class, plays with friends at the community center, and stays home one day to play video games. The day she stays home is the day before the weekend. Her ballet class is on the third school day. She goes to her grandmother's house two days before ballet. She plays with friends at the community center the day before she has ballet class. On which day of the week does Cecilia have soccer practice?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 22***  
**Guided Class Practice, Problem 2**

Use pattern blocks for this problem.

Trace 3 hexagons.

Divide the first hexagon into halves and color one half red.

Divide the second hexagon into thirds and color one third blue.

Divide the last hexagon into sixths and color one sixth green.

Which colored part is the greatest?  $\frac{1}{2}$   $\frac{1}{3}$   $\frac{1}{6}$

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 23***  
**Guided Class Practice, Problem 4**

Draw a rectangle. Divide the rectangle in half 4 different ways. How many ways can a circle be divided in half?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 27***  
**Guided Class Practice, Problem 5**

Draw a clock face with numbers. Draw the hour and minute hands to show the time 2 hours later than 8:30. Show the new time on a digital clock, too.

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 28***  
**Guided Class Practice, Problem 3**

Katie had 2 dimes and 1 penny. Mallory gave her 3 more dimes. Draw a picture to show all the coins she has now. What is the total value of all her coins?

**Extension and Enrichment**  
**Saxon Math 2, Lesson 30-1**  
**Problem-Solving Worksheet 30A**

The boxcars on a toy train are in a blue, yellow, red, yellow, green repeating pattern. Show the color of the 14<sup>th</sup> boxcar. There are a total of 18 cars on the toy train. If the train were half as long, how many boxcars would be on the train? Draw a picture of the shorter train. What color would the last boxcar be?

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 32**  
**Guided Class Practice, Problem 4**

A thermometer shows that it is 18 degrees Fahrenheit. If the temperature rises 10 degrees, then drops 2 degrees, what will the temperature be? Is it hot, warm, cool, or cold at this temperature?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 33***  
**Guided Class Practice, Problem 2**

Draw a triangle. Can you draw a triangle using only horizontal and vertical line segments? Draw a square. Can you draw a square using line segments that are not horizontal and vertical? If so, draw one.

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 37***  
**Guided Class Practice, Problem 2**

How many socks would you have if you had 9 pairs and 1 white sock left over? How many socks would you have altogether if your brother gave you 3 more pairs of socks?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 38***  
**Guided Class Practice, Problem 3**

Jared has a cup of quarters, dimes, nickels, and pennies. What is the least number of coins Jared could use to show 49 cents? Draw a picture of these coins. If he added one cent to find a new money total, what is the least number of coins Jared could use to show the new money amount?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 40-1***  
**Problem-Solving Worksheet 40A**

Blake has a set of blocks made out of different shapes: squares, triangles, circles, rectangles, and hexagons. Show all the ways he can combine them in pairs if each pair is made up of 2 different shapes. How many different ways can Blake combine his blocks this way?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 42***  
**Guided Class Practice, Problem 2**

Draw 3 squares of the same size. Divide the first square into fourths and shade two fourths. Divide the second square into eighths and shade four eighths. Divide the last square into thirds and shade two thirds. Write the fraction you shaded next to each square. Which square shows the greatest shaded amount? Are any of the shaded amounts equal? If so, which ones?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 43***  
**Guided Class Practice, Problem 1**

On Friday, children can buy pizza or hot dogs for lunch. Last Friday 65 children bought pizza and 22 bought hot dogs. This Friday, if 10 of the children who bought pizza last week buy hot dogs instead, how many children will buy hot dogs? How many children will buy pizza?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 47***  
**Guided Class Practice, Problem 3**

Kiana was born on September 16, 2006. What will be the date of Kiana's 15<sup>th</sup> birthday? Write the date using digits.

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 48***  
**Guided Class Practice, Problem 3**

Kalen brushes his teeth every morning and every evening. How many times does he brush his teeth in one week? Show the amount using tally marks. How many times does he brush his teeth in the month of June?

**Extension and Enrichment**  
**Saxon Math 2, Lesson 50-1**  
**Problem-Solving Worksheet 50A**

Maya has a cup of pennies, a cup of nickels, and a cup of dimes. Show all the ways she can make  $23\text{¢}$  using her dimes, nickels, and pennies. How many different ways can Maya make  $23\text{¢}$ ?

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 52**  
**Guided Class Practice, Problem 4**

Tremaine has 1 dime, 4 nickels, and 3 pennies. How much money is this? Draw this same amount of money using only dimes and pennies, showing the fewest coins. Draw this same amount using only quarters, nickels, and pennies, showing the fewest coins.

***Extension and Enrichment***  
***Saxon Math 2, Lesson 53***  
**Guided Class Practice, Problem 2**

Print every letter of the alphabet using capital (uppercase) letters. Do any of the letters have two lines of symmetry? Which ones?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 57***  
**Guided Class Practice, Problem 5**

Draw a rectangle with sides of 2 inches, 4 inches, 2 inches, and 4 inches. Add all of the sides together. What is the sum? Label your answer.

***Extension and Enrichment***  
***Saxon Math 2, Lesson 58***  
**Guided Class Practice, Problem 1**

Azam has 4 nickels. Dominique has 2 dimes. Alec has 20 pennies.  
How many coins do the 3 children have altogether? Which children  
have the same amount of money?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 60-1***  
**Problem-Solving Worksheet 60A**

Suzanne wants to make a necklace with a blue, blue, red, green, green,  
yellow repeating pattern. She will use 18 beads to make her necklace.  
Show how many of each color bead she will need.

***Extension and Enrichment***  
***Saxon Math 2, Lesson 62***  
**Guided Class Practice, Problem 1**

On January 14<sup>th</sup>, 12 children got on the bus at the first stop. The bus made 3 more stops, and each time 2 more children got on the bus. By the time the bus arrived at school, how many children were on the bus?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 63***  
**Guided Class Practice, Problem 3**

Draw or trace a triangle, a trapezoid, a hexagon, and a parallelogram. Which has the greatest number of angles? Compare the number of angles to the number of sides of each shape.

***Extension and Enrichment***  
***Saxon Math 2, Lesson 67***  
**Guided Class Practice, Problem 3**

Tanner woke up at 7:30 in the morning. He stayed awake for 14 hours before going to bed. What time did Tanner go to bed? Was it morning or night when he went to bed? If Tanner sleeps 9 hours, what time will he wake up in the morning?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 68***  
**Guided Class Practice, Problem 4**

At the school store, Sondra bought a ruler, an eraser, 4 blue pens, 8 orange pencils, and a half-dozen green pencils. Rajat gave her 3 red pencils and Julianne gave her 2 more green pencils. Draw a picture to show how many green pencils she has now. Draw tally marks to show the total number of pencils Sondra has now.

**Extension and Enrichment**  
**Saxon Math 2, Lesson 70-1**  
**Problem-Solving Worksheet 70A**

At the Village School store children can buy fruit drops, mints, and licorice. Fruit drops cost 1¢ each, licorice pieces cost 2¢ each, and mints cost 3¢ each. Todd bought at least one of each. He spent 11¢ altogether. Show all the possible combinations of fruit drops, licorice, and mints he could have bought. Explain how you got your answer.

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 72**  
**Guided Class Practice, Problem 1**

Simon has 4 dimes and 5 pennies. Edgar has 8 dimes and 8 pennies. Write a number sentence to show how many more dimes Edgar has than Simon. Write a number sentence to show how many more pennies Edgar has than Simon. How much more money does Edgar have than Simon? Write a number sentence to show this.

***Extension and Enrichment***  
***Saxon Math 2, Lesson 73***  
**Guided Class Practice, Problem 1**

Eleven children from Grade 1 and 16 children from Grade 2 went on a field trip to the aquarium. Four children went home early. How many children finished the field trip?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 77***  
**Guided Class Practice, Problem 4**

Draw a rectangle that is divided into 10 equal parts. Shade 5 of the parts. Write a fraction that tells how much of the rectangle is shaded. Write a different fraction that tells how much is not shaded.

***Extension and Enrichment***  
***Saxon Math 2, Lesson 78***  
**Guided Class Practice, Problem 1**

Chase has 25 marbles. He gave Trevor 9 marbles and Kirk 6 marbles. How many marbles does Chase have now? Write 2 number sentences to show how many marbles Chase has now.

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 80-1***  
**Problem-Solving Worksheet 80A**

Eight people can ride in each van. Five people can ride in each car. Thirty-six people are going on a trip together. They want to take as many vans as possible, but the vans must be full. The rest of the people will ride in a car. Draw a picture to show many vans and cars they will need to take. The vans cost \$100 to rent, and the cars cost \$70 to rent. How much money will they pay altogether to rent the vans and cars?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 82***  
**Guided Class Practice, Problem 1**

Sixteen children voted yes and half that many voted no. How many children voted altogether? Show this number using tally marks.

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 83***  
**Guided Class Practice, Problem 5**

It is 5 minutes past 8 o'clock in the morning. What time will it be in 5 hours? Will it be morning or afternoon? Write this time using digits.

**Extension and Enrichment**  
**Saxon Math 2, Lesson 87**  
**Guided Class Practice, Problem 6**

Draw 6 circles and color  $\frac{1}{3}$  of them. How many of the circles did you color?

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 88**  
**Guided Class Practice, Problem 1**

Use the list to find how many more postcards the child with the most postcards has than the child with the fewest. Write a number sentence to show this.

Samira	118
Allison	224
Franklin	96
Morten	91

**Extension and Enrichment**  
**Saxon Math 2, Lesson 90-1**  
**Problem-Solving Worksheet 90A**

The bookstore is having a sale. Hardback books cost  $82¢$ . Paperback books cost  $28¢$ . Magazines cost  $14¢$ . Bookmarks cost  $7¢$ . Sepehr began with  $\$2.00$  and selected 2 hardback books. Show the different things he can buy with the remaining money, so that he will receive as little change as possible. How much change will he receive?

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 92**  
**Guided Class Practice, Problem 2**

Order the following numbers from least to greatest:

61      44      27      95      78

What is the sum of the greatest odd number and the least even number?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 93***  
**Guided Class Practice, Problem 1**

Eli has 8 dimes and 8 pennies. Cruz has 2 dimes and 14 pennies. If Eli gives 3 of his dimes to Cruz, how much money will each boy have? Who will have more money?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 97***  
**Guided Class Practice, Problem 1**

Maria brought 2 dozen cookies for her pom class. A half dozen cookies were eaten. How many cookies were left? If there are 9 girls in the class and they divided the cookies that were left to take home, how many cookies did each girl take?

**Extension and Enrichment**  
**Saxon Math 2, Lesson 98**  
**Guided Class Practice, Problem 3**

Draw 8 circles and color 6 of them. Is the fraction  $\frac{6}{8}$  closer to 0 or to 1? Color the rest of the circles. Write the fraction of the colored circles now. What does this fraction equal?

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 100-1**  
**Problem-Solving Worksheet 100A**

The children in Ms. Tran's class are selling t-shirts. Each t-shirt costs \$8.00. How much money will the class make if they sell 12 t-shirts? If they lower the price to \$7.00, how much money will they make if they sell 12 t-shirts? Do you think there will be more demand if they sell the t-shirts for \$7.00? How many \$7.00 shirts do they need to sell to make more than they would make selling 12 shirts at \$8.00?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 102***  
**Guided Class Practice, Problem 1**

A clown at the circus had 30 balloons on Saturday. He gave away 1 dozen balloons. On Sunday he gave away 10 more. How many balloons did he give away altogether? How many balloons did he have left?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 103***  
**Guided Class Practice, Problem 5**

A new pencil is 7 inches long. How long would 3 new pencils be placed end to end? Give the answer in inches only and then in feet and inches.

**Extension and Enrichment**  
**Saxon Math 2, Lesson 107**  
**Guided Class Practice, Problem 5**

Round each of the following numbers to the nearest 10. Then find the sum of the rounded numbers.

28 \_\_\_\_\_ 41 \_\_\_\_\_ 65 \_\_\_\_\_

Add the numbers. What is the difference between this sum and the rounded sum?

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 108**  
**Guided Class Practice, Problem 1**

Miguel has 12 books. He gave 2 books to his sister. He shared the rest equally with his brother. How many books each do Miguel and his brother have?

**Extension and Enrichment**  
**Saxon Math 2, Lesson 110-1**  
**Problem-Solving Worksheet 110A**

The sandwich shop offers different types of meats, bread, and cheese. They sell ham, turkey, and roast beef. They have white and rye bread. They have American and Swiss cheese. Show all the different types of sandwiches they can make using 1 meat, 1 bread, and 1 cheese.

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**Extension and Enrichment**  
**Saxon Math 2, Lesson 112**  
**Guided Class Practice, Problem 4**

Draw 3 squares and shade 2 of them. In the last square draw a line of symmetry and shade the square on 1 side of the line. Write a mixed number to show how many squares are shaded.

***Extension and Enrichment***  
***Saxon Math 2, Lesson 113***  
**Guided Class Practice, Problem 3**

Draw a square with a side of 6 cm. What is the perimeter? Draw a line of symmetry to divide the square into 2 rectangles. What is the perimeter of one of those rectangles?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 117***  
**Guided Class Practice, Problem 3**

Which of the letters A, E, L, M, V, and Z have oblique line segments?  
Which has only oblique line segments?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 118***  
**Guided Class Practice, Problem 1**

Crayons are sold in boxes of 8. Mrs. Martinez bought 3 boxes and then gave 1 box away. How many crayons does she have left?

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 120-1***  
**Problem-Solving Worksheet 120A**

The store sells shoes for \$41.00. In one day, the store sold \$615 worth of shoes. How many pairs of shoes did they sell? If they sell the same number of shoes every day, how much money will they make in 3 days?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 122***  
**Guided Class Practice, Problem 5**

I have 2 quarters, 2 dimes, 2 nickels, and 4 pennies. How much money do I have? If I add 1 dozen pennies to my total, how much money will I have altogether? Write the new money amount in 2 different ways.

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 123***  
**Guided Class Practice, Problem 2**

The piano recital began at quarter past 3 in the afternoon. It lasted one and one half hours. What time was the piano recital over?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 127***  
**Guided Class Practice, Problem 1**

There were 8 children at the party. Each child ate 4 cookies. Each child at the party also took 3 cookies home. If all of the cookies were gone after the party, how many cookies were there to begin with? Write number sentences to show how you got your answer.

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 128***  
**Guided Class Practice, Problem 5**

Draw 4 squares and shade 3 of them. In the last square, draw a line of symmetry. Then draw another line of symmetry perpendicular to the first line you drew. Shade one part of the square made by the lines of symmetry. Write a mixed number to show how many squares are shaded.

***Extension and Enrichment***  
***Saxon Math 2, Lesson 130-1***  
**Problem-Solving Worksheet 130A**

Tan has a domino. One half has twice as many dots as the other half. The sum of the dots is an odd number greater than 4. Show what the dots on his domino look like.

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***Extension and Enrichment***  
***Saxon Math 2, Lesson 132***  
**Guided Class Practice, Problem 1**

Shelley has 3 dolls. Marybeth has twice as many dolls as Shelley has. If each of Marybeth's dolls is wearing a pair of shoes, how many doll shoes does Marybeth have?

***Extension and Enrichment***  
***Saxon Math 2, Lesson 133***  
**Guided Class Practice, Problem 4**

Sam, Ally, Tracee, and Joe will share 2 dozen doughnuts equally for breakfast. How many doughnuts will each person have? If two friends join them for breakfast and share the doughnuts equally, how many doughnuts would each have?