

4th Grade Summer Brain Work

Dear Incoming 4th Grade Student,

To be ready for learning in 4th grade you will need to exercise your brain over the summer! We have provided some reading and math activities for you to complete.

We hope you enjoy your summer break and have a lot of fun too! See you on August 18th!

Your Fourth Grade Teachers

Summer Reading

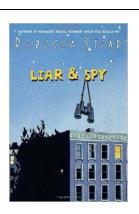
Fourth Grade

Read at least one of the following novels.

Summaries provided by Amazon.com

Liar and Spy by Rebecca Stead

Seventh grader Georges moves into a Brooklyn apartment building and meets Safer, a twelve-year-old self-appointed spy. Georges becomes Safer's first spy recruit. His assignment? Tracking the mysterious Mr. X, who lives in the apartment upstairs. But as Safer becomes more demanding, Georges starts to wonder: what is a lie, and what is a game? How far is too far to go for your only friend?



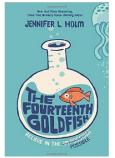


A Dog Called Homeless by Sarah Lean

Cally Fisher knows she can see her dead mother, but the only other living soul who does is a mysterious wolfhound who always seems to be there when her mom appears. How can Cally convince anyone that her mom is still with the family, or persuade her dad that the huge silver-gray dog belongs with them?

The Fourteenth Goldfish by Jennifer L. Holm

Eleven-year-old Ellie has never liked change. She misses fifth grade. She misses her old best friend. She even misses her dearly departed goldfish. Then one day a strange boy shows up. He's bossy. He's cranky. And weirdly enough . . . he looks a lot like Ellie's grandfather, a scientist who's always been slightly obsessed with immortality, the ability to live forever. Co

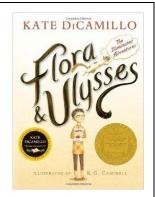


obsessed with immortality, the ability to live forever. Could this boy really be Grandpa Melvin? Has he finally found the secret to eternal youth?

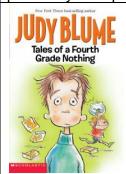
Summer Reading (continued)

Flora and Ulysses by Kate DiCamillo

The squirrel never saw the vacuum cleaner coming, but self-described cynic Flora Belle Buckman, who has read every issue of the comic book *Terrible Things Can Happen to You!*, is the just the right person to step in and save him. What neither can predict is that Ulysses (the squirrel) has been born anew, with powers of strength, flight, and misspelled



poetry — and that Flora will be changed too, as she discovers the possibility of hope and the promise of a big heart.



Tales of a Fourth Grade Nothing by Judy Blume

Peter feels his parents are neglecting him and giving all their attention to his rambunctious, two-year olds brother, nicknamed Fudge. To everyone else Fudge is cute, but he is not cute to Peter, he is annoying. Read what happens to Peter when he has to save his crazy brother from his insane behavior.

The Shadows: The Books of Elsewhere, Volume 1 by Jacqueline West

When eleven-year-old Olive and her parents move into the crumbling mansion on Linden Street and find it filled with mysterious paintings, Olive knows the place is creepy—but it isn't until she encounters its three talking cats that she realizes there's something darkly magical afoot. Then Olive finds a pair of antique spectacles in a dusty drawer and discovers the most peculiar thing yet: She can travel *inside* the house's spooky paintings to a world that's strangely quiet . . .



When choosing your summer read:

- Look at the cover, length, and summaries. What interests you?
- Read aloud a page to parent. Could you pronounce and understand all the words except 2-3? That's a good book for you.
- Get advice from a librarian or bookstore employee.

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Name		
ivallie.		

Summer Reading

novel I read was	by	
1. Write 4 great vocabulary v	words you found in your novel	. Find a synonym and anto
for each word.		
Vocabulary Word	Synonym(s)	Antonym(s)
	novel that you felt you would r	·
•	Why do you think that? (we'r	e looking for more though
beyond, "because he/she	is nice")	

3.	What was your favorite part of the novel and why?
1.	What was the major problem (also known as conflict) of the novel? How did the main
	character solve the problem?
5.	If you could change any part of the novel, what would you change and how would you
	change it? Why would you change that part?

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Summer Math Packet

Fourth Grade

I verify that I worked on the packet on my own or with some help from an adult.

S	tudent Signature Parent Signature
Wha	t were the three problems you felt most confident about completing?
1	
2	
	t were the three most challenging problems for you and why?
1	
2	
3	

Name		

Summer Math- June

Addition & Subtraction Practice

Choose one of the follow activities to practice 3-4 days a week for at least 10 minutes. You should have a total of at least 30 minutes of practice per week. In each day, write the number option you choose and how many minutes you practiced.

- 1. Work on addition flashcards with a parent or adult.
- 2. Work on subtraction flashcards with a parent.
- 3. http://www.mathplayground.com/index addition subtraction.html (go to an appropriate level game for you)
- 4. http://www.coolmath-games.com/1-addition-subtraction-games (go to an appropriate level game for you)

		201	6 J	UNE	•		
SUN	MON	TUE	WED	THU	FRI	SAT	
							Total for the
		7	8		100		week (include a label/unit):
	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30			

Summer Math- July

Multiplication & Division Practice

Choose one of the follow activities to practice 3-4 days a week for at least 10 minutes. You should have a total of at least 30 minutes of practice per week. In each day, write the number option you choose and how many minutes you practiced.

- 1. Work on multiplication flashcards (up to 12 x 12) with a parent or adult.
- 2. Work on division flashcards (up to 144 (144) with a parent.
- 3. http://www.mathplayground.com/index multiplication division.html (go to an appropriate level game for you)
- 4. http://www.coolmath-games.com/1-multiplicationdivision-games (go to an appropriate level game for you)

	JULY 2016							
SUN	МОИ	TUE	WED	THU	FRI	SAT	a label/unit):	
					1	2		
3	4	5	6	7	8	9		
10	11	12	13	14	15	16		
17	18	19	20	21	22	23		
24	25	26	27	28	29	30		
31			-printable-cale					

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Summer Math- August

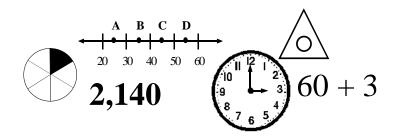
Multiplication & Division Practice

Choose one of the follow activities to practice 3-4 days a week for at least 10 minutes. You should have a total of at least 30 minutes of practice per week. In each day, write the number option you choose and how many minutes you practiced.

- 1. Work on multiplication flashcards (up to 12 x 12) with a parent or adult.
- 2. Work on division flashcards (up to 144) with a parent.
- 3. http://www.mathplayground.com/index multiplication division.html (go to an appropriate level game for you)
- 4. http://www.coolmath-games.com/1-multiplicationdivision-games (go to an appropriate level game for you)

	Total for the week (include a						
SUN	МОИ	TUE	WED	THU	FRI	SAT	label/unit):
	1	2	3	4	5	6	iabel/unit).
7	8	9	10	11	12	13	
14	15	16	17	18	19	20	
21	First Day of School!	23	24	25	26	27	
28	29	30	31				

Summer Math Packet For Students Entering Grade 4



Student's Name

Grade 4 Class

June 2016

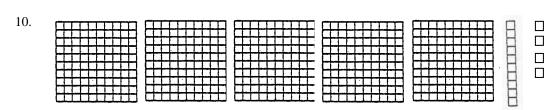
- 1. Place Value
- A Solve problems involving I or 10 more or less
- 1. On Monday, the doughnut shop sold 54 cups of coffee before noon and 10 more cups of coffee after noon. How many cups of coffee did the doughnut shop sell on Monday?
- a. 44
- b. 54
- c. 64
- d. 59
- 2. There were 47 people at last night's concert. We expect 10 less people to. come tonight. How many people do we expect to come tonight?
- a. 47
- b. 37
- c. 57
- d. 27
- 1 Place Value
- B Identify alternative forms of expressing whole numbers using expanded notation
- 3. Which means the same as 400 + 20 + 3?
- a. 40,203
- b. 400,203
- c. 4,023
- d. 423
- 4. Which means the same as 525?
- a. 500 + 200 + 50
- b. 500+20+5
- c. 50+20+5
- d. 500+20+50
- 1. Place Value
- C. Identify alternative forms of expressing whole numbers using regrouping
- 5. Which means the same as 4 tens 14 ones
- a. 44
- b. 414
- c. 54
- d. 4014

6.	Which means the same as 6 hundreds 7 tens 13 ones
a.	673
b.	671
c.	683
d.	613
	re Value
Use	place value concepts to interpret the meaning of numbers
7. I	n which number does the 4 have the GREATEST value?
a. :	5364
b. 4	4635
c. (5435
d. 3	3645
8. I	n which number does the 6 have the LEAST value?
a.	9628
b. 2	2986
c. 8	8962
d. (5289
2. I	Pictorial Representations of Numbers
	Relate pictorial representations using base ten blocks to whole numbers and vice versa



9.

- a. 334 b. 443c. 1,343
- d. 343



- a. 514
- b. 541
- c. 5,514
- d. 414
- 2. Pictorial Representations of Numbers
- B Identify, label or shade fractional parts of regions and sets
- 11. What fraction of the group is shaded?



- a. 1/2
- b. 2/3
- c. 3/2
- d. 2/5
- 12. Shade 1/4 of the circle



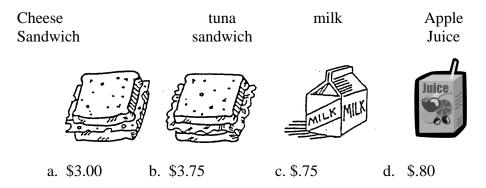
- 4. Order, Magnitude and Rounding of Numbers
- A. Order whole numbers
- 13. Which list shows the numbers in order from LEAST to GREATEST?
- a. 53, 63, 54, 62
- b. 54, 53, 62, 63
- c. 53, 54, 62, 63
- d. 53, 63, 54, 62

14. Which group of numbers is in order from LEAST to GREATEST?

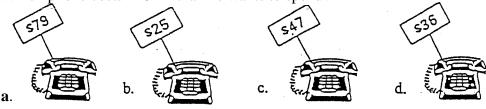
- a. 71, 17, 45, 21
- b. 35, 52, 71, 18
- c. 29, 36, 72, 81
- d. 41, 14, 54, 65

Order, Magnitude and Rounding of Numbers

- B Describe the magnitude of whole numbers
- 15. Tammy has \$.3.00 to spend for lunch. Which item costs more than she wants to spend?



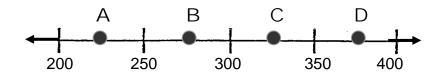
16. Mark wants to buy a new telephone for his office. He does not want to spend more than \$55. Which phone costs MORE than he wants to spend?



- 4 Order, Magnitude and Rounding of Numbers
- C Round whole numbers in context
- 17. Beth read 18 books last summer. This number is CLOSEST to
- a. 10
- b. 15
- c. 20
- d. 25
- 18. Cleo and Roger rented video tapes for \$19 and spent \$28 to buy cassette tapes. ABOUT how much did they spend?
- a. \$30
- b. \$40
- c. \$50
- d. \$60

4. Order, Magnitude and Rounding of Numbers

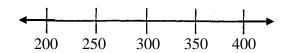
D Identify points representing whole numbers on a number line and vice versa



19. The number 265 would be CLOSEST to which point marked on the number line?

- a. A
- b. B
- c. C
- d. D

20. Complete a number line:



Draw and label a point on the number line that represents 325.

5 Models for Operations

A Relate multiplication and division facts to rectangular arrays and pictures

21. Which multiplication fact is represented by this array



- a. 2 x 2
- b. 8 x 1
- c. 2 x 4
- d. 4 x 4

22. Which division fact is represented by this picture?



- a. $6 \div 3 = 2$
- b. $18 \div 6 = 3$
- c. $6 \div 2 = 3$
- d. $18 \div 3 = 6$

7	Modele	for	Operations
J	Models	101	Operations

B Identify the appropriate operation or number sentence to solve a story problem

- 23. Martha had 6 plants in her front yard and 4 plants in her backyard. Which number sentence could be used to find out how many plants Martha had all together?
- a. $6 \times 4 = \square$
- b. $6 4 = \Box$
- c. $6 + 4 = \Box$
- d. $6 \div 4 = \Box$
- 24. There are 4 plates that each have 5 cookies on them. Which equation will tell you how many cookies there are in all?
- a. 4 + 5
- b. $4 \div 5$
- c. 5 + 4
- d. 4 x 5
- 5 Models for Operations
- C Write story problems for addition and subtraction number sentences
- 25. Write a story problem that can be solved using the number sentence
- $9 + 6 = \Box$
- 26. Write a story problem that can be solved using the number sentence

$$17 - 9 = \Box$$

6. Basic Facts

A Add and subtract facts to 18

27. 17 – 8 = _____

a. 9

b. 25

c. 8

d. 11

28. 5 + 12 = _____

a. 7

b. 60

c. 8

d. 17

6 Basic Facts

B Multiply and divide by 2, 5, or 10

29. 40 ÷ 5 = _____

a. 20

b. 45

c. 9

d. 8

30. 10 x 6 = _____

a. 16

b. 61

c. 60

d. 600

7 Computation with Whole Numbers and Decimals

A Add and subtract 1- and 2-digit whole numbers without regrouping

31. 95

- 62

a. 37

b. 33

c. 35

d. 23

32.

- a. 69
- b. 25
- c. 79
- d. 80

7 Computation with Whole Numbers and Decimals

B Add 1- and 2-digit whole numbers with regrouping

33.

- a. 23
- b. 91
- c. 82
- d. 81

34.

- a. 91
- b. 92
- c. 82
- d. 95

9 Solve Word Problems

A Solve simple story problems involving addition or subtraction

- 35. The Davidson's went on a 300-mile boat trip. On the first day they traveled 65 miles. On the second day of their trip they went 35 miles. How many miles did they travel onn these 2 days?
- a. 30
- b. 35
- c. 100
- d. 400
- 36. A paint store ordered an extra 125 cans of paint for a sale. On Monday they sold 31 cans of paint. On Tuesday, 53 cans of paint were sold. How many more cans of paint, were sold on Tuesday than on Monday?
- a. 93
- b. 22
- c. 84
- d. 24

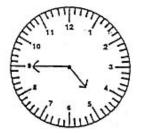
- 9 Solve Simple Word Problems
- B Solve simple problems involving addition or subtraction with extraneous information
- 37. Emily scored 413 points on a video game. Mallory's score was 118 and Laura's score was 215. Show how to find the difference between Laura's score and Emily's score.
 - a. 413 + 215
 - b. 118 + 215
 - c. 413 + 118
 - d. 413 215
- 38. At the Osbom Hill School Carnival Amanda won 36 prize tickets. Julie collected 61 and Robin got 44. Show how to find the sum of Amanda's and Julie's tickets.
 - a. 61 36
 - b. 36 + 61
 - c. 36 + 44
 - d. 97 + 44
- 10 Numerical Estimation Strategies
- A Identify the best expression to find an estimate
- 39. Gregory needs to add 395 to 789. Which of the following would be the BEST for Gregory to use to ESTIMATE the sum?
- a. 400 + 700
- b. 400 + 800
- c. 300 + 800
- d. 300 + 700
- 40. Buzz needs to subtract 446 from 875. Which of the following would be the BEST for Buzz to use to ESTIMATE the difference?
- a. 800 400
- b. 800 500
- c. 900 400
- d. 900 500

- 11. Estimating Solutions to Problems
- A Estimate a reasonable answer to a problem
- 41. Tarzan and Jane rented video tapes for \$ 9 and spent \$17 to buy cassette tapes. ABOUT how much did they spend?
- a. a little less than \$20
- b. a little more than \$20
- c. a little less than \$30
- d. a little more than \$30
- 42. Dr. Judy had \$80 before she spent \$39.75 for a necklace. ABOUT how. much money did she have left?
- a. a little less than \$30
- b. a little more than \$30
- c. a little less than \$40
- d. a little more than \$40

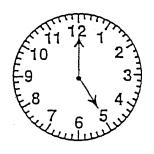
Time

A Tell time to the nearest hour, half-hour, and quarter-hour using analog and digital clocks

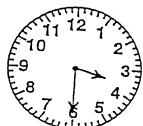
- 43. When Jo looked at her watch it showed the time below. What time did it show?
- a. 4:00
- b. 4:25
- c. 4:30
- d. 4:45



44. June went to the beach at half past 3. Which clock shows this time?



a.



c.

10 23 3 43 43 43

b.

d

Time

B Solve problems involving time, elapsed time, and calendars

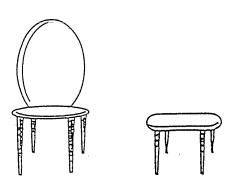
45.

July						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
				1	2	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Justine got her allowance on the 4th day of this month What day was that?

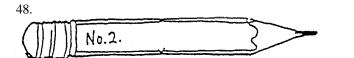
- a. Monday
- b. Wednesday
- c. Saturday
- d. Sunday
- 46. The clock says 9:15. What time will it be in a half hour?
- a. 9:45
- b. 9:30
- c. 10:15
- d. 10:00
- 15 Approximating Measures
- A Estimate lengths and areas

47.



ABOUT how many footstools would be the same height as the chair?

- a.
- b. 3
- c. 4
- d. 5





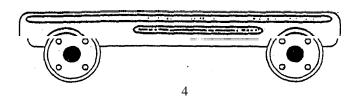
ABOUT how many paperclips would be the same length as the pencil?

- a. 1
- b. 2
- c. 3
- d. 4

16 Customary and Metric Measures

A Measure or draw lengths to the nearest inch or centimeter

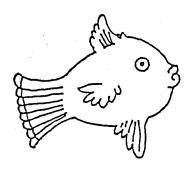
49.



Use your ruler to measure the <u>length</u> of the wagon in this picture to the NEAREST centimeter.

- a. 5 centimeters
- b. 8 centimeters
- c. 12 centimeters
- d. 15 centimeters

50.



Use your ruler to measure the <u>length</u> of the fish in this picture to the NEAREST centimeter.

- a. 2 centimeters
- b. 3 centimeters
- c. 4 centimeters
- d. 6 centimeters

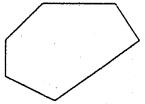
16 Customary and Metric Measure

B Identify appropriate customary or metric units of measure for a given situation

- 51. ABOUT how long is a new pencil?
- a. 7 inches
- b. 7 feet
- c. 7 years
- d. 7 miles
- 52. ABOUT how wide is your finger?
- a. 1 gram
- b. 1 centimeter
- c. 1 meter
- d. 1 kilometer
- 17 Geometric Shapes and Properties

A Identify geometric shapes and figures including number of angles and sides of polygons

- 53. How many angles does this shape have?
- a. 4
- b. 5
- c. 6
- d. 7



- 54. What is the name of a geometric figure with 5 sides?
- a. pentagon
- b. square
- c. quadrilateral
- d. hexagon
- 17 Geometric Shapes and Properties
- B Draw geometric shapes and figures
- 55. Draw a trapezoid

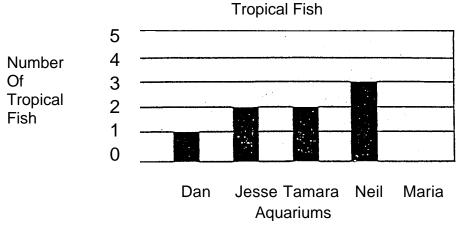
56.

Draw a rectangle

19 Tables, Graphs, and Charts

A Identify correct information from tables, graphs, and charts

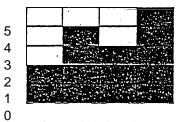
57. The graph below shows how many tropical fish are in Dan, Jesse, Tamara, Neil and Maria's aquarium.



If Neil gets 1 more tropical fish, how many fish will be in his aquarium?

- a. 2
- b.4
- c.14
- d. 12

58.



Kim Ted Cyl Josh

Altogether, how many points do Cyl, Josh, and Ted have?

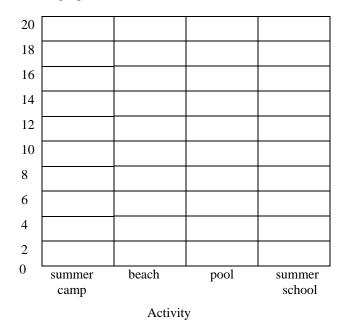
- a. 4
- b. 8
- c. 12
- d. 14

59. The table shows places students went over a summer vacation.

Places	Number of Students
summer camp	5
Beach	13
Pool	15
summer school	4

Complete the BAR graph to show the same information





60. Draw a bar graph using the following information

Money Earned Babysitting			
Name	Amount of Money		
Jan	\$12		
Ginny	\$6		
June	\$8		
Nan	\$14		
Carole	\$6		



22. Patterns
Extend or complete patterns involving whole numbers and attributes or identify or state rules for given patterns

61.	Draw a figue	that goes in the	empty space.	Write a sentence to e	xplain	vour answer.
01.	Diaw angue	mat goos in the	chipty space.	William a politorice to t	Apium	your answer.

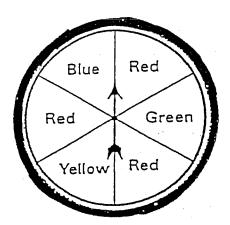
()		

62. What is the next number in your pattern? Write the number. Then write a sentence that explains why you wrote that number.

61, 59, 57, 55, ____

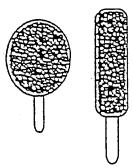
- 21 Probability
- A Solve problems involving elementary notions of probability

63.



- 63. If Robin spins this spinner once, on which color is the arrow MOST likely to land?
 - a. Red
 - b. Blue
 - c. Green
 - d. Yellow
- 64. There were 12 red, 15 yellow and 7 green candies in a dish. If Johnny chooses one piece without looking, which color candy is LEAST likely to be picked?
- a. red
- b. yellow
- c. green
- d. red or yellow

- 24 Classification and Logical Reasoning
- A Identify objects that are the same or different by one attribute
- 65. Marie bought these lollipops at the fair:



How are the lollipops the SAME?

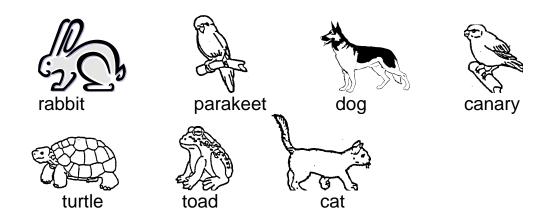
- a. Size
- b. Shape
- c. Color
- d. Color and shape



How are these spiders different?

- a. Size
- b. Shape
- c. Color
- d. Shape and Color
- 24 Classification and Logical Reasoning
- B Sort objects into 2 groups by common attribute

67.



Sort the animals into 2 groups so that each group has something in common. Show how you grouped the animals by writing its name onto the chart. Explain how you decided to group the animals

68. DELETED

- 25 Mathematical Applications
- A Numerical

69. Billy wins a \$25.00 shopping spree

- 1. Decide what Billy could buy. Write about your choices.
- 2. Make a receipt that shows how many items of each price he bought
- 3. Show the total he spent and credit he has left, if any.
- 4. Repeat for another way Billy *could* spend the money.

Science Museum Store Price List				
\$3.00	\$4.00	\$5.00		
1. Origami paper	1. Kaleidoscope	1. Koosh ball		
2. Crystal and gem	2. Large magnifying bug	2. Glow-in-the-dark solar system		
3 Furry stuffed seal pups	3. Sunprint kit	3. Inflatable world globe		
4. Prism	4. Inflatable shark	4. Wooden dinosaur modelkit		

70. Breakfast Choices

Samantha has the following types of food:

- 6 donuts that cost 20¢ each
- 3 bagels that cost 30¢ each
- 7 pastries that cost 40¢ each
- 4 granola bars that cost 50¢ each

To make breakfast bags for 5 groups of students, Samantha needs to sort ALL 20 of the food items into 5 bags.

- Each bag must contain the same total number of items.
- Each bag must contain at least three different types of items.
- No two bags can be filled exactly like another bag.

Show how Samantha can put the items into each bag and then find the total cost of each bag.

- 25 Mathematical Applications
- B Statistical

71. Jenny is selling muffins at a stand. She sells the muffins in packs of 2 and 4. This chart shows how she planned to sell each of them:

Muffins	Cost
2-pack	\$1.50
4-pack	\$2.50

Jenny sorted the 60 muffins into the two types of packs. When she was done, she found that she had the same number of 2-packs as 4-packs. Show the number and types of muffin packs Jenny sold at the stand. Show how you got your answer

72. Outfits

Debbie is going to visit her cousins for the weekend. She packs a pair of purple pants, a pair of jeans, and a pair of blue shorts. For shirts she take a blue tee-shirt, a white tank top, a yellow blouse, and a green shirt. How many different outfits can she make?

A picture or table will help you to organize the information.

Write a description of how you figured out your answer.