Part I: Grade 3

- Test Blueprint
- Test Content
- Sample Items
- Vocabulary List

EDITOR'S NOTE: Some scored student work may contain labeling elements used when the items were pilot tested. These labeling elements are separate and distinct from and are not a part of the test items themselves.

Connecticut Mastery Test – Fourth Generation

Mathematics Grade 3 Test Blueprint

Contact Standards and Street	# of multiple-	# of open-
Content Standards and Strands	choice items	ended items
Numerical and Proportional Reasoning		
1. Place Value	6	
2. Pictorial Representations of Numbers	4	2
3. Equivalent Fractions, Decimals and Percents	NT	NT
4. Order, Magnitude and Rounding of Numbers	6	
5. Models for Operations	4	2
6. Basic Facts	6	
7. Computation with Whole Numbers and Decimals	6	
8. Computation with Fractions and Integers	NT	
9. Solve Word Problems	6	
10. Numerical Estimation Strategies	4	
11. Estimating Solutions to Problems	4	
12. Ratios and Proportions	NT	NT
13. Computation with Percents	NT	NT
Geometry and Measurement		
14. Time	6	
15. Approximating Measures	6	
16. Customary and Metric Measures	3	3
17. Geometric Shapes and Properties	3	3
18. Spatial Relationships	NT	NT
Working with Data: Probability and Statistics		
19. Tables, Graphs and Charts	4	2
20. Statistics and Data Analysis	NT	NT
21. Probability	4	
24. Classification and Logical Reasoning	2	2
Algebraic Reasoning: Patterns and Functions		
22. Patterns	2	2
23. Algebraic Concepts	NT	NT
Integrated Understandings		
25. Mathematical Applications		2
		10
TOTAL	76	18

^{*} NT = Strand not tested at this grade level.

Connecticut Mastery Test – Fourth Generation

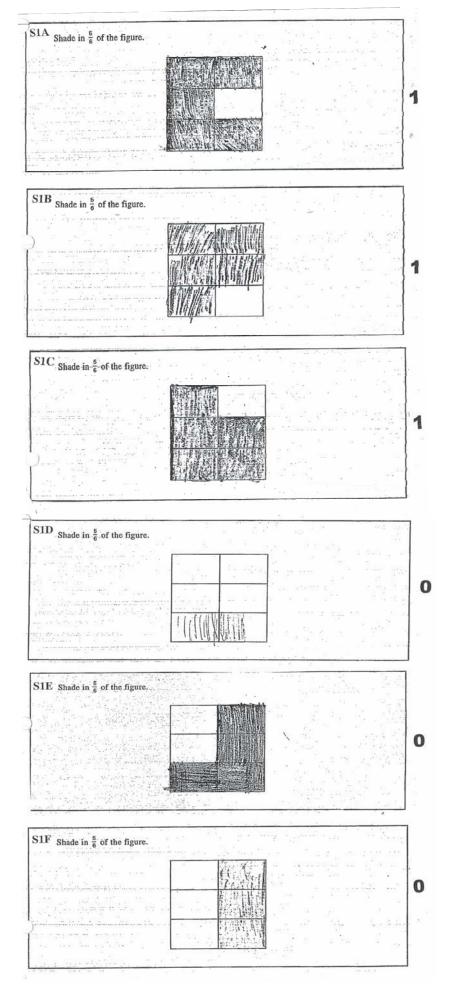
Mathematics Grade 3 Content

	Strand	Concepts/Skills Assessed
1.	Place Value	A. Solve problems involving 1 MORE/LESS or 10 MORE/LESS using 2-digit
		numbers.
		B. Identify alternative forms of expressing 3-digit whole numbers using expanded
		notation.
		C. Identify alternative forms of expressing 2-digit whole numbers using
		regrouping.
		D. Use place value concepts to identify and compare the magnitude and value of
		digits in 2- and 3-digit numbers.
2.	Pictorial Representation of	A. Relate whole numbers to pictorial representations of base ten blocks and vice
	Numbers	versa.
		B. Identify fractional parts of regions and sets using pictures and vice versa.
		C. Label and/or shade fractional parts of regions and sets.
3.	Equivalent Fractions, Decimals and	Not tested
	Percents	
4.	Order, Magnitude	A. Order 2- and 3-digit whole numbers.
	and Rounding of Numbers	B. Describe magnitude of 2- and 3-digit whole numbers.
	1 (united)	C. Round 2-digit whole numbers in context.
		D. Identify points representing 2- and 3-digit whole numbers on a number line and
		vice versa.
5.	Models for	A. Relate multiplication and division facts to rectangular arrays and pictures.
	Operations	B. Identify the appropriate operation or number sentence to solve a story problem.
		C. Write story problems from addition or subtraction number sentences.
6.	Basic Facts	A. Add and subtract facts to 18.
		B. Multiply and divide by 2, 5 and 10.
7.	Computation with Whole Numbers and	A. Add and subtract 1- and 2-digit whole numbers without regrouping.
	Decimals	B. Add 1- and 2-digit whole numbers with regrouping.
8.	Computation with	Not tested
	Fractions and Integers	
9.	Solve Word Problems	A. Solve simple story problems involving addition (with/without regrouping) or
		subtraction (without regrouping).
		B. Solve simple story problems involving addition (with/without regrouping) or
		subtraction (without regrouping) with extraneous information.
10.	Numerical	A. Identify the best expression to find an estimate.
11	Estimation Strategies Estimating Solutions	A Identify a reasonable estimate to a problem
	to Problems	A. Identify a reasonable estimate to a problem.
12.	Ratios and Proportions	Not tested
13.	Computation with	Not tested
1.4	Percents Time	
14.	1 mie	A. Tell time to the nearest hour, half-hour and quarter-hour using analog and
		digital clocks.
		B. Solve problems involving time, elapsed time (15-minute increments) and
		calendars.

Strand	Grade 3 Concepts/Skills Assessed
15. Approximating Measures	A. Estimate lengths and areas by comparing.
16. Customary and Metric Measures	A. Measure lengths to the nearest inch or centimeter.B. Draw lengths to the nearest inch or centimeter.C. Identify appropriate customary or metric units of measure for a given situation (inches, feet, centimeters and meters).
17. Geometric Shapes and Properties	A. Identify and recognize 2-dimensional geometric shapes and figures, including number of angles and sides of polygons.B. Draw 2-dimensional geometric shapes and figures.
18. Spatial Relationships	Not tested
19. Tables, Graphs and Charts	A. Identify correct information from tables, bar graphs, pictographs and charts.B. Create bar graphs and pictographs from data in tables and charts.
20. Statistics and Data Analysis	Not tested
21. Probability	A. Identify correct solutions to problems involving elementary notions of probability.
22. Patterns	A. Extend or complete patterns, or identify rules using numbers and attributes.B. Extend or complete patterns and state rules using numbers and attributes.
23. Algebraic Concepts	Not tested
24. Classification and Logical Reasoning	A. Identify objects that are the same or different by one attribute.B. Sort objects into 2 groups by a common attribute.
25. Mathematical Applications	A. Solve extended numerical and statistical problems.

GRADE 3 SAMPLE ITEMS

1. Pla	ce Value - MC			
The v	alue of 79 would chang	ge by how much if the 7 v	was replaced by a 5?	
0	2			
0	5			
O	20 50			
	30			
2. Pic	torial Representations	s of Numbers - MC		
What	part of this shape is sha	aded?		
0	1			
	$\frac{1}{8}$			
0	$\frac{1}{3}$			
•	$\frac{3}{8}$			
0	<u>3</u> 5			
	3			
2. Pic	torial Representations	s of Numbers - OE		
	•			
	Shade in $\frac{5}{6}$ of the figure.	*	•	
			1	
			5115	
		-		
		96 59		



4. Order, Magnitude and Rounding of Numbers - MC

Maria and her sister baked 48 cookies. Which number is **closest** to 48?

- O 60
- **⊙** 50
- O 40
- O 30

5. Models for Operations - MC

Malik has 12 animal books and 26 comic books. Which number sentence is best to use to find out how many **more** comic books he has than animal books?

- O $12 + 26 = \Box$
- \odot 26 12 =
- O $12 \times 26 = \square$
- O $26 \div 12 = \square$

5. Models for Operations - OE

Write a story problem that can be solved using the number sentence

$$28 + 9 = \square$$
.

28 - Char	oter b	ooks.	she	bo	unt	
	25			NAVP.	Daws	
28+9=37	Thooks		-	1000	111111	
	10000					
						 .
			5			
	,	J. H				
		1.7		No positivo co		-
	£ 0		-			
2						
	ow many	ow many doe 28+9=37 books	28+9=37 books	ow many does she 1 28+9=37 books	ow many does she have 28+9=37 books	ow many does she have now? 28+9=37books

S1B Write a story problem that can be solved using the number sentence 28 + 9 = □. has 28 marah 15, AV 9 more. Now Kelly has 37 marables S1C Write a story problem that can be solved using the number sentence . 28 + 9 = []. S1D Write a story problem that can be solved using the number sentence 28 + 9 = □.

S1E Write a story	problem that can be solved using the number sentence
	28 + 9 = ☑.
· A · · · · · · · · · · ·	
One da	y I went to the store a bought
28 peture	sonly I wanted 37. How many
	wes would I have to bug to get 37?
1200 100	
(A) (E)=(A)	
7	
)	
S1F Write a sto	ory problem that can be solved using the number sentence
	28 + 9 = □.
There.	were 28 mice eciting chees 9 left. How
	nice are left?
Thery is	The are let / §
) .	
) .	
)	
S11 Write a sto	bry problem that can be solved using the number sentence
S11 Write a sto	bry problem that can be solved using the number sentence $28 + 9 = \square$.
S11 Write a sto	
S11 Write a sto	28+9= 1. It day I went in the pool I counted
One to	28+9=0. 28+9=0. 28+9=0. 130 I went in the pool I counted 28+9=0.
One to	28+9= 1. It day I went in the pool I counted
One ho	28+9=0. 28+9=0. 28+9=0. 130 I went in the pool I counted 28+9=0.

S1G Write a story problem that can be solved using the number sentence 28 + 9 = □. S1H Write a story problem that can be solved using the number sentence 28 + 9 = □.

6. Basic Facts - MC

2) 18

- O 7 O 8
- 69

7.	Computation	with	Whole	Numbers	and I	Decimals -	· MC

58 + 25 =

- O 33
- O 73
- **O** 83
- O 84

9. Solve Word Problems - MC

Jon had 56 baseball cards. He gave 23 of them to his brother. How many baseball cards does Jon have left?

- O 23
- **O** 33
- O 34
- O 79

10. Numerical Estimation Strategies - MC

Kim wants to subtract 285 from 411. Which of the following would be **best** for Kim to use to **estimate** the answer?

- O 400 200
- **⊙** 400 − 300
- O 500 200
- O 500 300

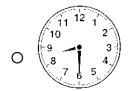
11. Estimating Solutions to Problems - MC

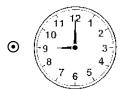
Ms. Parker bought food for \$18. She gave the cashier \$50. **About** how much change did the cashier give Ms. Parker?

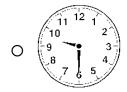
- **•** \$30
- O \$40
- O \$60
- O \$70

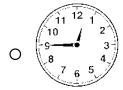
14. Time - MC

Carl's bedtime was at 9:00. Which clock shows that time?



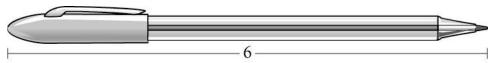


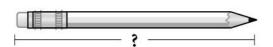




15. Approximating Measures - MC

The pen is 6 units long.





About how many units long is the pencil?

- O 2
- **o** 3
- O 4
- 0 5

16. Customary and Metric Measures - MC

Use your ruler to measure the length of the table in the picture to the nearest inch.

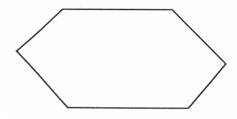
Of inches

16. Customary and Metric Measures - OE

Draw a line segment that is 12 centimeters long.

17. Geometric Shapes and Properties - MC

How many sides does this figure have?

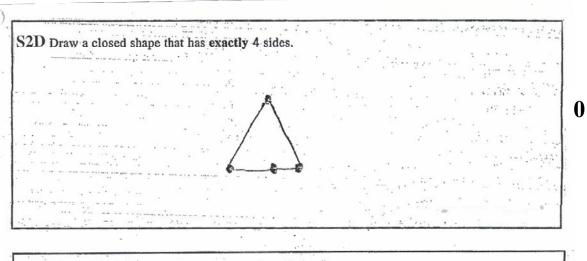


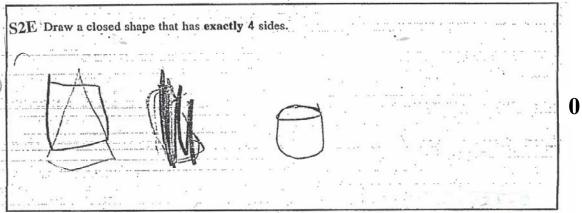
- 0 4
- 0 5
- **⊙** 6
- 0 7

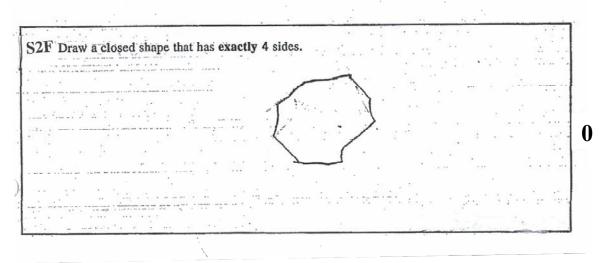
17. Geometric Shapes and Properties - OE

S-2 Draw a closed shape that has exactly 4 sides.

S2B-Draw a closed shape that has exactly 4 sides. S2C Draw a closed shape that has exactly 4 sides.	S2A Draw a closed shape that has exactly 4 sides.	
S2C Draw a closed shape that has exactly 4 sides.		2002
S2C Draw a closed shape that has exactly 4 sides.		
S2C Draw a closed shape that has exactly 4 sides.		
S2C Draw a closed shape that has exactly 4 sides.		
S2C Draw a closed shape that has exactly 4 sides.	S2B Draw a closed shape that has exactly 4 sides.	
		THE THE RESERVE THE THE THE THE THE THE THE THE THE TH
	S2C Draw a closed shape that has exactly 4 sides.	
	S2C Draw a closed shape that has exactly 4 sides.	
	S2C Draw a closed shape that has exactly 4 sides.	
	S2C Draw a closed shape that has exactly 4 sides.	
	S2C Draw a closed shape that has exactly 4 sides.	
		8



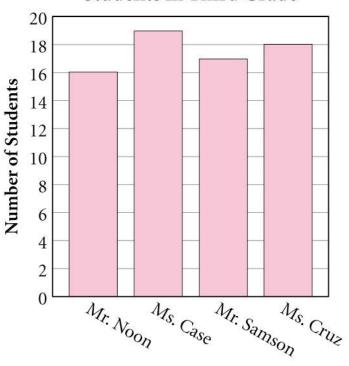




19. Tables, Graphs and Charts - MC

The bar graph below shows the number of students in each third grade class.

Students in Third Grade

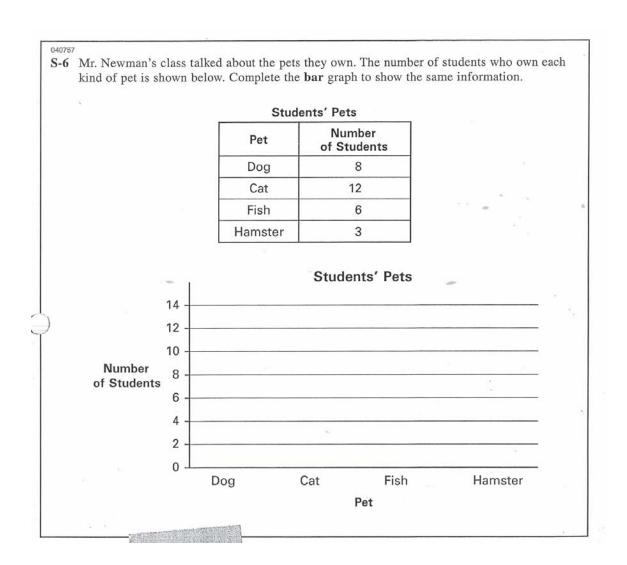


Third Grade Classrooms

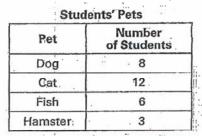
How many students are in Mr. Samson's class?

- O 16
- **⊙** 17
- O 18
- O 19

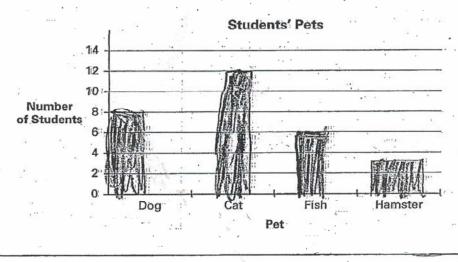
19. Tables, Graphs and Charts - OE



S6AMr. Newman's class talked about the pets they own. The number of students who own each kind of pet is shown below. Complete the bar graph to show the same information.

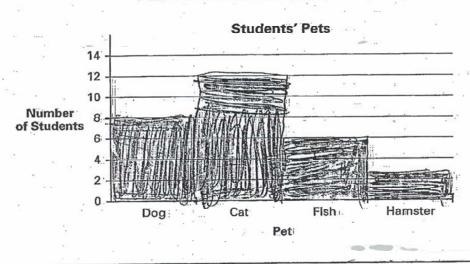


2

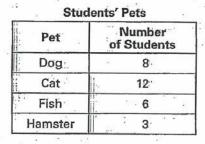


S6B Mr. Newman's class talked about the pets they own. The number of students who own each kind of pet is shown below. Complete the bar graph to show the same information.

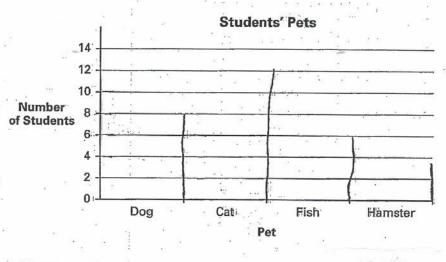
Students' Pets Pet Number of Students Dog: 8 Cat 12 Fish 6 Hamster 3



S6C Mr. Newman's class talked about the pets they own. The number of students who own each kind of pet is shown below. Complete the bar graph to show the same information.

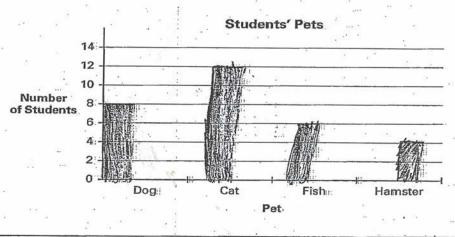


2

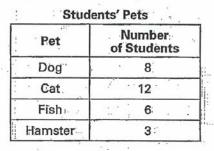


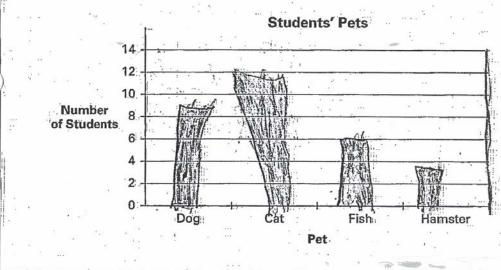
S6D Mr. Newman's class talked about the pets they own. The number of students who own each kind of pet is shown below. Complete the bar graph to show the same information.

Pet	Number of Students	١.
Dog	8	
Cat	12	-
Fish	6	
Hamster	3:	



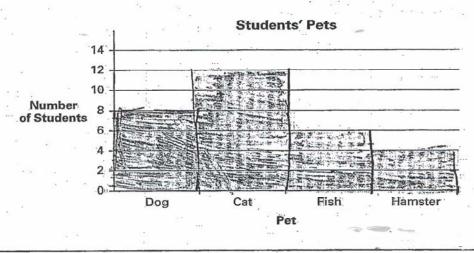
S6E Mr. Newman's class talked about the pets they own. The number of students who own each kind of pet is shown below. Complete the bar graph to show the same information.



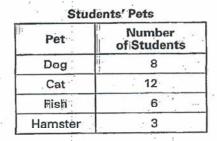


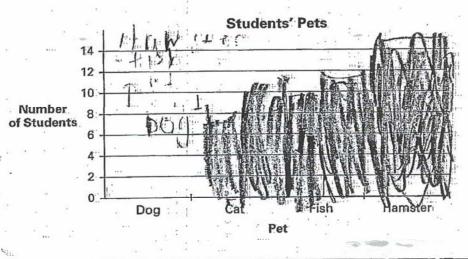
S6F Mr. Newman's class talked about the pets they own. The number of students who own each kind of pet is shown below. Complete the bar graph to show the same information.

Pet	Number of Students
Dog	8
Cat	. 12
Fish	6:
Hamster	3



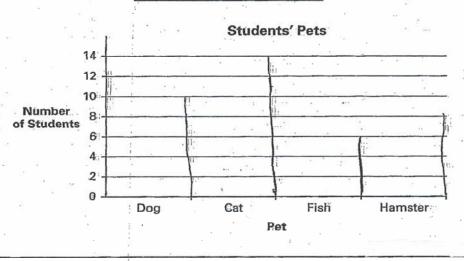
S6G Mr. Newman's class talked about the pets they own. The number of students who own each kind of pet is shown below. Complete the bar graph to show the same information.

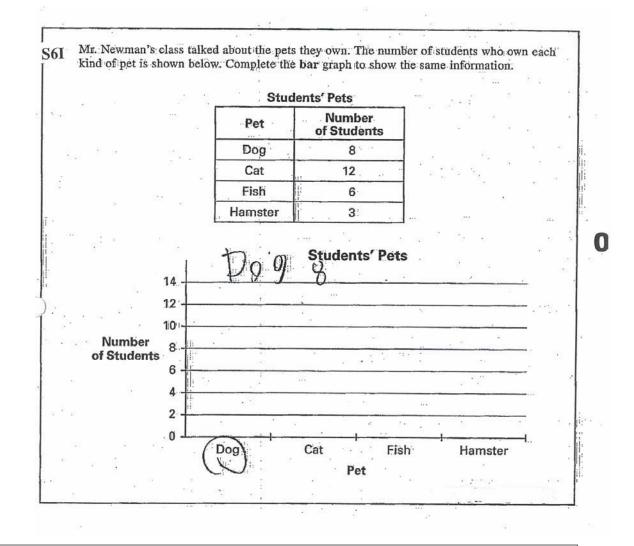




S6H Mr. Newman's class talked about the pets they own. The number of students who own each kind of pet is shown below. Complete the bar graph to show the same information.

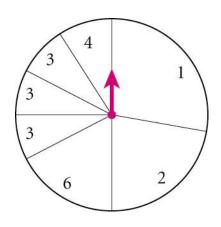
Stud	ents' Pets
Pet	Number of Students
Dog	8 -
Cat	12
Fish	6
Hamster	3:





21. Probability - MC

If Jack spins the spinner once, on which number is the arrow most likely to land?



- \odot

22. Patterns - MC

Which rule was followed in the table below?

START	END
5	2
7	4
10	7
12	9

- O Add 2
- Subtract 3
- O Multiply by 2
- O Divide by 5

22. Patterns - OE

These numbers follow a pattern.

What number should come next in the pattern?

Answer	

Explain why you think that number should be next in the pattern.

22. Patterns - OE

040762

S-2 These numbers follow a pattern.

19, 16, __?_,10, 7, 4

What number is missing from the pattern?

Explain why you think it is the missing number.

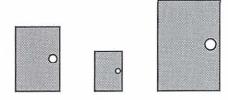
	follow a pattern.	• • • • • • • • • • • • • • • • • • • •		
	19, 16,	? ,10,	7, 4	
What number is	missing from the patter	m? 13	_ 200 _ 2 _ 2	
Explain why you	u think it is the missing	g number.		
I found	my ar	weser	by cou	inting
Crons &	A	hen I	· /	7
+ ther			o the I	59010
ab! this	pattern		intinc b	21/
25 50			11 .	rave
from t		it eau		7024
- 410M 1	SEA . HACK	11 699	anea 12	•
			et 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>
S2B These numbers f	follow a pattern.			
		7 ,10,	7 1	
	13, 10,		/ , 4	
		12		
	missing from the patter		- 1,1,	
	think it is the missing			
The patter	115-3 and	16-3=13.		
	· · · · · · · · · · · · · · · · · · ·		type of the state of	
referencia in a				
	·		× 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
S2C These numbers	follow a pattern.			
	19, 16,	? ,10,	7, 4	
		17		
What number is	missing from the patter	rn?		
or to the little of	u think it is the missing		1	
[/P] If	VOU 5	tart p	1051h'	35
VV	At sort	of makes	like:	a
train 4	111	コニフ	17-10-1	715-
trom 4	VITTORN /1+			11-1
Mini 2	attern 4t	ffern a	0 100	075
Mini 13. But	the of	fference	e her	U+ 5
Trom 4	the of	fference Traction	e her	U+ 3-
trom 4	the of	fference Traction	e her	U+ 3-

months and the second of the s		PR-			The state of the s
	19, 16,	7,1	0, 7, 4		
					". · .]
What number	s missing from the patte				
	ou think it is the missing		an 84		
Explain why	ou think it is the missing	g number.			
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ell to a est mana ana	ta Market Commission	9-14 ¥	* United States	e i proces	
6 0 05 00 0 0 0			(25)	***	\$. *
i de la contraction de la cont					· ·
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			•		
	<u> </u>			m <u>886</u> 166	
					
S2E These number	ers follow a pattern.	2 . 1 1			
o en India.	19, 16,	7 .1	0. 7. 4		
	,,		-, -, -, -		
		1	3	1	
	is missing from the patt	ern?			
	you think it is the missir	The state of the s			
		The state of the s	take	away.	From
becas	e. I state	1 10			-2
becas		1 10			From -2.
becas	e. I state	1 10			10000 -2.
becas	e. I state	1 10			From -2.
becas	e. I state	1 10			10m
becas	e. I state	1 10			10000 -2.
becas	e. I state	1 10			From - 2.
becas	e. I state	1 10			10000 -2.
becas	e. I state	1 10			From - 2.
becas +he	E. F. States	1 10			1000
becas +he	rs follow a pattern.	1 to I nolis	id i4		1000
becas +he	E. F. States	1 to I nolis	id i4		1000
becas +he	rs follow a pattern.	1 to I nolis	id i4		1000
S2F These number	F. F. Sta. fee. 19 And	1 to I notis	id i4		1000
S2F These number	rs follow a pattern. 19, 16, is missing from the patt	1 to I notis	id i4		1000
S2F These number	F. F. Sta. fee. 19 And	1 to I notis	id i4		1000
S2F These number	rs follow a pattern. 19, 16, is missing from the patt	1 to I notis	id i4		added
S2F These number	rs follow a pattern. 19, 16, is missing from the patt	7 , ern? 14 ng number.	10, 7, 4		added M.
S2F These number	rs follow a pattern. 19, 16, is missing from the patt	1 to I notis	10, 7, 4		added M
S2F These number	rs follow a pattern. 19, 16, is missing from the patt	7 , ern? 14 ng number.	10, 7, 4		added M
S2F These number	rs follow a pattern. 19, 16, is missing from the patt	7 , ern? 14 ng number.	10, 7, 4		added W
S2F These number	rs follow a pattern. 19, 16, is missing from the patt	7 , ern? 14 ng number.	10, 7, 4		added M

S2G These numbers follow a pattern.	
19, 16, _ ? _,10, 7, 4	
What number is missing from the pattern?	
because I counted f	iKS+
and then I added it u	P
and I got 15.	
S2H These numbers follow a pattern.	the true is not
19, 16, _ ? _,10, 7, 4	
17	
What number is missing from the pattern?	
Explain why you think it is the missing number.	
the Pattern is 19 and so	I added
17	
	* * * * * * * * * * * * * * * * * * *
	(
The contract state of the contract of the cont	
	: : : : : : : : : : : : : : : : : : : :
S2I These numbers follow a pattern.	
19, 16, 7, 10, 7, 4	
What number is missing from the pattern?	
Explain why you think it is the missing number.	1
FARTI T thought to MI S	P/1
1914 18 and I think i got t	he
9986767	
	,
	(4)
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24. Classification and Logical Reasoning - MC

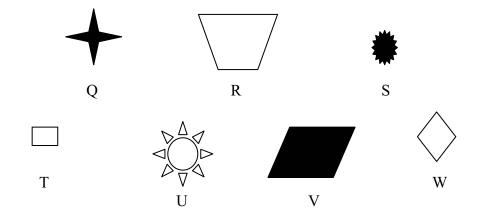
How are these doors different?



- O Size and color
- Size only
- O Shape and size
- O Color only

24. Classification and Logical Reasoning - OE

Sort all 7 of these figures into 2 groups so that the figures in each group have something in common. Show how you grouped the figures by writing the **letter** (Q, R, S, T, U, V, or W) of each figure on the chart.

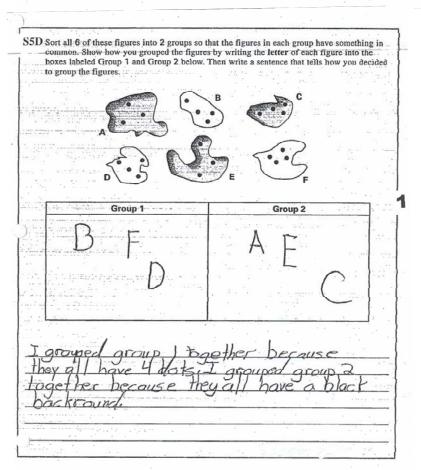


Group 1	Group 2

Explain why you grouped the figures the way you did.		

24. Classification and Logical Reasoning - OE

S5A Sort all 6 of these figures into 2 groups so that the figures in each group have something in common. Show how you grouped the figures by writing the letter of each figure into the boxes labeled Group 1 and Group 2 below. Then write a sentence that tells how you decided to group the figures. Group 1 Group 2 S5B Sort all 6 of these figures into 2 groups so that the figures in each group have something in common. Show how you grouped the figures by writing the letter of each figure into the boxes labeled Group 1 and Group 2 below. Then write a sentence that tells how you decided to group the figures. 2 Group 2 Group 1 F decided Shapes Group shapes.



SSF Sort all 6 of these figures into 2 groups so that the figures in each group have something in common. Show how you grouped the figures by writing the letter of each figure into the boxes labeled Group 1 and Group 2 below. Then write a sentence that tells how you decided to group the figures.

Group 1

Group 2

D, B, F

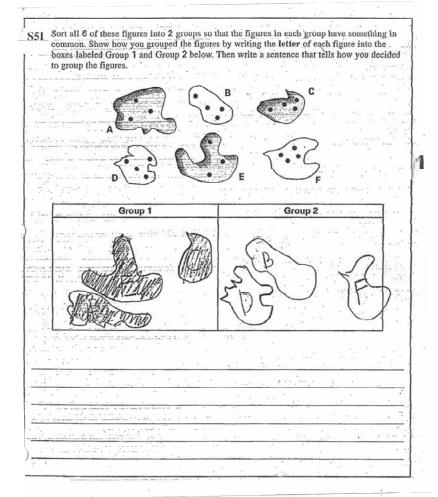
1

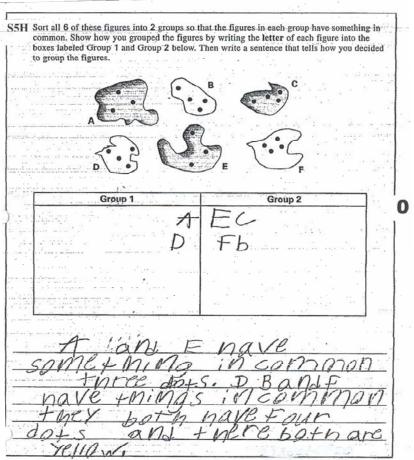
Group 2

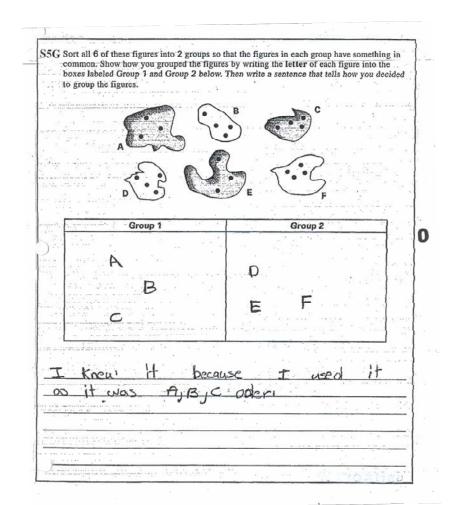
D, B, F

1

Lefout 1 is the Same he cause they are all gray. Esouta is the Same he cause they are all gray. Esouta is the Same he cause he caus







25. Mathematical Applications

Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- 18 pairs of shoes in all
- twice as many pairs of flip-flops as pairs of boots
- 3 pairs of sneakers
- 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Kind of	Number of Pairs		
Shoes	One Way	Another Way	
Chaolione	One way	Another way	
Sneakers			
Flip-flops			
Boots			
Dress Shoes			
Clogs			
Total			

E1A Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- · 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Shoes in the Closet

Kind of	Num	nber of Pairs
Shoes	Оле Way	Another Way
Sneakers	Boales	3 pairs
Flip-flops	6 pairs	4pairs
Boots	3pairs	2 pairs
Dress Shoes	Isair	5 sairs
Clogs	5 vairs	4,20,15
Total	18 2915	18 rairs

E1B Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- · 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Kind of	Number of Pairs		
Shoes	One Way	Another Way	
Sneakers	3 pairs	3 pairs	
Flip-flops	6 pairs	4 pairs	
Boots	3 Pairs	2 pairs	
Dress Shoes	1 Pair	5 pairs	
Clogs	5 Pairs	4 pairs	
Total	18 Pairs	18 pair	

E1C Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- · 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Shoes in the Closet

Kind of	Number of Pairs		
Shoes	One Way	Another Way	
Sneakers	3	3	
Flip-flops	6	4	
Boots	3	2	
Dress Shoes		5	
Clogs	5	4	
Total	18	10	

E1D

Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- · 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- · 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Kind of	Number of Pairs			
Shoes	One Way	Another Way		
Sneakers	3 pars.	3 pair		
Flip-flops	4 bairs	2 pairs		
Boots	apairs	1 pairs		
Dress Shoes	3 pairs	9 pars		
Clogs	6 pairs	3 parts		
Total	18 pairs	18 pair		

E1E Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- . 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- · 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Shoes in the Closet

Kind of	Numl	Number of Pairs	
Shoes	One Way	Another Way	
Sneakers	3	2	
Flip-flops	2	2.	
Boots)	
Dress Shoes	9	9	
Clogs	3	3	
Total	18	18	

Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- · 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Shoes in the Closet

Kind of Num		er of Pairs	
Shoes	One Way	Another Way	
Sneakers	3 pairs	3	
Flip-flops	4 pairs	3	
Boots	2 pairs	3	
Dress Shoes	5 pairs	6	
Clogs	4 pairs	3.	
Total	18 pairs	18	

2

E1G

Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- · 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Shoes in the Closet

Kind of	Number of Pairs	
Shoes	One Way	Another Way
Sneakers	Bpair	2
Flip-flops	2 pair	B
Boots	1-pair	:2
Dress Shoes	Ipair	2
Clogs	2 pair	3) m
Total	18 pairs	lopais

E1H

Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- 3 pairs of sneakers
- 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Kind of	Number of Pairs	
Shoes	One Way	Another Way
Sneakers	ک	3
Flip-flops	В	8
Boots	4	4
Dress Shoes	1	2
Clogs	F	
Total	18	18

E1I

Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- · 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- · 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Shoes in the Closet

Kind of	Number	r of Pairs
Shoes	One Way	Another Way
Sneakers	3 Pairs	3 PONITS
Flip-flops	4 Pairs	4 Pairs
Boots	2 Pairs	2 Polin
Dress Shoes	3 Pairs	3 Pairs
Clogs	4 Pairs	4 Pairs
Total	16 Polis	16 Pair

E1J

Geno's mother has 5 kinds of shoes in her closet.

There are:

- sneakers, flip-flops, boots, dress shoes, and clogs
- 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Shoes in the Closet

0

Kind of	Number of Pairs	
Shoes	One Way	Another Way
Sneakers	2	7
Flip-flops	5	3
Boots	3	2
Dress Shoes	5	5
Clogs	3	2
Total	18	18

E1K

Geno's mother has 5 kinds of shoes in her closet.

There are:

- . sneakers, flip-flops, boots, dress shoes, and clogs
 - 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- · 3 pairs of sneakers
- · 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Shoes in the C	ioset
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Kind of	Number of Pairs	
Shoes	One Way	Another Way
Sneakers	3	4
Flip-flops	6	4
Boots	4_	Le .
Dress Shoes	2	3
Clogs	I.L.	3
Total	18	18

E11.

Geno's mother has 5 kinds of shoes in her closet.

There are:

- · sneakers, flip-flops, boots, dress shoes, and clogs
- · 18 pairs of shoes in all
- · twice as many pairs of flip-flops as pairs of boots
- · 3 pairs of sneakers
- 2 more pairs of clogs than pairs of boots

Use the information above to show how many pairs of each kind of shoe Geno's mother could have in her closet. Then show another way his mother could have pairs of each kind of shoe in her closet. Fill in the table below with your answers.

Shoes in the Closet

0

Kind of	Number of Pairs	
Shoes	One Way	Another Way
Sneakers	3	
Flip-flops	2	4
Boots		3
Dress Shoes	3	6
Clogs	2	2
Total	19	18

25. Mathematical Applications

Jeff needs to raise \$80 to go on a class trip. He can do different jobs to earn the money. Jeff can work at the following jobs for the pay listed.

JOB	PAY PER HOUR
Sweep garage	\$1
Dust	\$1
Return bottles	\$2
Wash the car	\$3
Baby-sit	\$5

Use the information above to show one way that Jeff can raise the \$80.

- Jeff can work for no more than 40 hours in all.
- No one job may be done for more than 10 hours.
- At least 3 different jobs must be picked.
- A total of exactly \$80 must be raised.

Fill in the chart to show the number of hours each job was done in order to earn exactly \$80.

JOB	HOURS WORKED	MONEY RAISED
Sweep garage		
Sweep Burnge		
Dust		
Return bottles		
Wash the car		
Baby-sit		
TOTALS:		

Connecticut Mastery Test – Fourth Generation Mathematics Grade 3 Vocabulary List

Add Fewer, fewest More than Same/same as All together Fewer than Most Segment A.M. Figure (as in Multiply Set geometric Nearest Shaded Angle(s) Answer figure) No less than Shape Foot No more than Short, shorter, Area Number fact shortest Arrav Fraction Fractional part Number line Side(s) Arrow At least Graph Number Size Greatest Small/smaller Bar graph sentence Between Group, grouped Numerator than Cardinal Grid (dot Ones Solve/solution numbers paper) Operation Sort Centimeter Half Order Spinner (numbers) Square Change (as in Height money) Hexagon Ordinal Story problem Chart Hour numbers Subtract Circle How many (first, second, Sum Clock (analog more etc.) Table and digital) How many less Parallelogram Tall, taller, Closest to Hundred (s) Pattern tallest Data Inch Pictograph Tens Day In common P.M. (as in Triangle Days of the Larger/ larger afternoon) Units (using dot week than Point (on paper, Denominator number Least base ten Difference Length line) blocks, and Different Less Polygon measurement) Digit Less than Product Unshaded Divide Likely Ouarter Value Venn diagram Equal Line segment Reasonable Equation Long, longer, Rectangle Week longest Estimate Rectangular Weight Exactly Measure Replaced Width **Explain** Meter Ring (draw a Yard Factor Minute ring around) Year Rounding, Fair Missing Farthest Month rounded

This list, while not exhaustive, includes vocabulary with which all teachers and students should be familiar.