Mathematically Connected Communities



PARCC Practice Test Items Grade 3 Mathematics

Excerpted from:

- MC² PARCC Practice Test Item Packets-Preparing for Spring 2017 https://mc2.nmsu.edu/teachers/preparing-for-parcc/
- MC² PARCC Practice Test Item Packets-Preparing for Spring 2015 https://mc2.nmsu.edu/teachers/preparing-for-parcc/
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- PARCC Released Items-Spring 2017
 https://parcc-assessment.org/released-items/?fwp_subject_facet=mathematics

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MC² Thinking Protocol: PARCC Test Prep Using Mathematical Practice Prompts

Use the MC² Thinking Protocol and follow the process below in working with the PARCC practice test items found in this packet:

- Choose items from this packet that relate to math concepts studied in the current or previous curriculum units during your math instruction. Each item may be used as a practice item worksheet.
- 2. Choose a set of **Thinking/Writing Prompts** below based on the math practice the class is working to develop.
- 3. Add the prompts to the practice item worksheet or display the prompts for the students to respond to.
- 4. Continue using the same set of prompts for an extended period of time so children develop competence and confidence in describing their mathematical thinking related to the math practice.

The questions below were intentionally not included on each MC² PARCC practice test item worksheet in this packet. These are intended to help students move beyond "answer getting" to fully making sense of test item questions and their own mathematical thinking.

Thinking/Writing Prompts to Promote Mathematical Practices

Math Practice 1: Make sense of problems and persevere in solving them.

- 1. What do you know about the problem?
- 2. What questions do you have?
- 3. Explain your reasoning or thinking in solving the problem.

Math Practice 3: Construct viable arguments and critique the reasoning of others.

- 1. What are the assumptions, definitions, and previous knowledge to help in thinking about this problem?
- 2. What are some possible conjectures that you have about the problem?
- 3. Explain your mathematical argument so that somebody else can make sense of your thinking.

Math Practice 4: Model with mathematics.

- 1. What are the important quantities in the problem that are needed to solve it?
- 2. What mathematical operation(s) or representation(s) will you use to solve the problem?
- 3. Explain how you know your answer makes sense in the context of the situation.

Math Practice 6: Attend to precision.

- 1. What are the important units in the problem? (What are we measuring or counting?)
- 2. What relationship between the units/quantities do you need to know in order to solve the problem?
- 3. Use appropriate and precise mathematical language, units, labels and computations to clearly describe your mathematical reasoning.

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Difficulty Order		Common Core State Standard	Domain	Source
1	3.C.5-2	OGL	Reasoning	

Difficulty Order		Common Core State Standard	Domain	Source
2	3.C.6-2	OGL	Reasoning	

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
3	3.Int.3	3.M.D.8 3.NBT.A.3	Measurement & Data Number & Operations in Base Ten	

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
4	3.C.5-1	OGL	Reasoning	

Difficulty	Evidence	Common Core	Domaina	Source
Order	Statement	State Standards	Domains	Source
5	3.Int.2	3.NBT.A.3	Multiple	MC ² PARCC Practice Test Item
5	5.1111.2	3.OA.D.8	iviuitipie	Packets-Preparing for Spring 2017

Use the information provided to answer Part A and Part B for question 26.

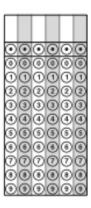
Pablo goes to a stamp show where he can share, buy, and sell stamps.

26. Part A

The first day, Pablo starts with 744 stamps. He buys 27 stamps from his friend. He then sells 139 stamps.

What is the total number of stamps that Pablo has after the first day of the stamp show?

Enter your answer in the box.



Part B

The second day, Pablo buys 6 packages of car stamps. Each package has 6 car stamps. Pablo shares these car stamps equally among himself and 3 friends.

What is the total number of car stamps that Pablo and each of his 3 friends receive?

Enter your answer in the box.

0	0	0	0	0	0
-	-	-	0	-	-
_		_	0	-	
_	-	_	② ③	_	
-	-	-	<u>(4)</u>	-	
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			③⑦		
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Difficulty Order	Evidence Statement	Common Core State Standards	Domains	Source
5	3.Int.2	3.NBT.A.3 3.OA.D.8	Multiple	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Use the information provided to answer Part A and Part B for question 18.

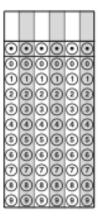
Third-grade students took a total of 1,000 pictures for the yearbook during the school year.

- · Ted took 72 pictures.
- · Mary took 48 pictures.

18. Part A

What is the total number of pictures taken by the rest of the third-grade students during the school year?

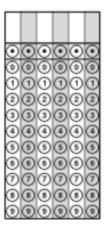
Enter your answer in the box.



Part B

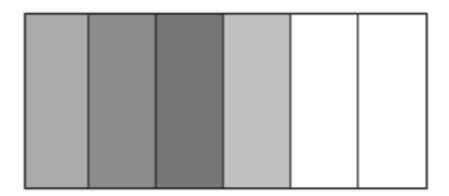
Ella took 8 more pictures than Ted took. How many more pictures did Ella take than Mary?

Enter your answer in the box.



Difficulty Order	Evidence Statement	Common Core State Standards	Domain	Source
6	3.NF.A.Int.1	3.NF.A.1 3.NF.A.2 3.NF.A.2.A	Number & Operations - Fractions	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

The artist starts painting the wall. The parts of the wall that look white are not painted yet.

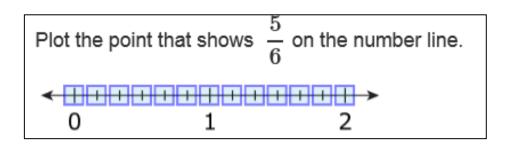


Which statements about the wall are correct?

Select the **two** correct statements.

- Each painted part is $\frac{1}{4}$ of the whole wall.
- Each painted part is $\frac{1}{6}$ of the whole wall.
- © Each painted part is $\frac{4}{4}$ of the whole wall.
- The fraction of the wall not yet painted is $\frac{1}{6}$.
- © The fraction of the wall not yet painted is $\frac{2}{4}$.
- © The fraction of the wall not yet painted is $\frac{2}{6}$.

Difficulty Order	Evidence Statement	Common Core State Standards	Domain	Source
6	3.NF.A.Int.1	3.NF.A.1 3.NF.A.2 3.NF.A.2.A	Number & Operations - Fractions	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2015



Difficulty Order	Evidence Statement	Common Core State Standards	Domains	Source
		3.MD.B.3	Moscuroment & Data	
7	3.Int.4	3.NBT.A.2	Number & Operations in Base Ten	
		3.NBT.A.3		

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
8	3.NF.3a-2	3.NF.A.3.A	Number & Operations - Fractions	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

A fraction is shown on the number line.



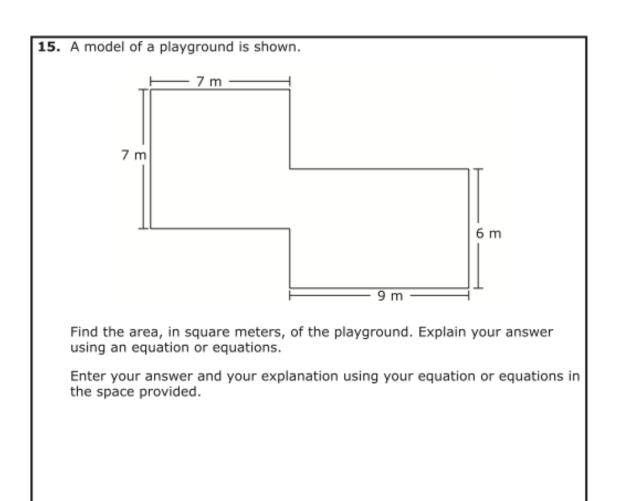
Plot a point on this number line to show a fraction that is equivalent to the fraction shown on the other number line.

Select a place on the number line to plot the point.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
9	3.C.4-5	OGL	Reasoning	

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
10	3.D.1	OGL	Modeling	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

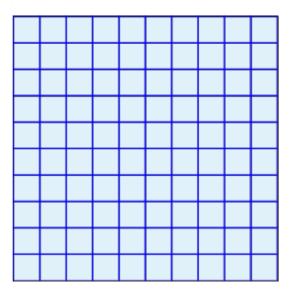


Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
10	3.D.1	OGL	Modeling	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Adam needs to put 19 pictures from Classroom A and 23 pictures from Classroom B on a bulletin board. He wants to display the pictures in an array.

Part A

Select a box for each picture to create an array to represent the pictures on the bulletin board.



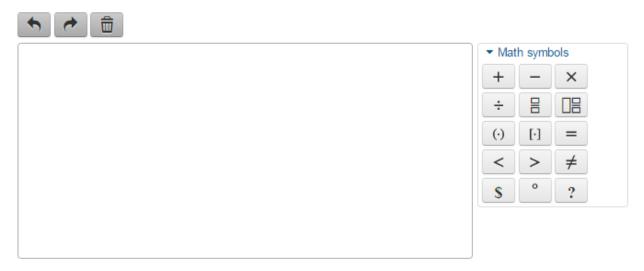
Continued on next page.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
10	3.D.1	OGL	Modeling	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Part B

Find the area of the array. Explain your answer using an equation or equations.

Enter your answer and your explanation using an equation or equations in the space provided.



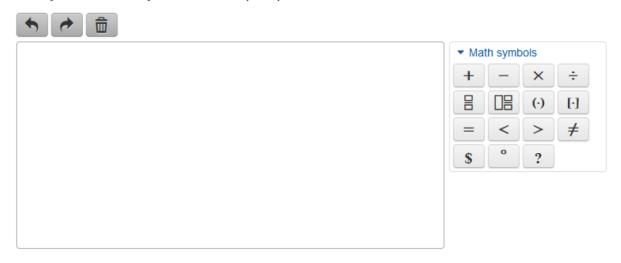
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
10	3.D.1	OGL	Modeling	PARCC Released Items- Spring 2017

Jessica came home at 3:20 p.m. She worked on her homework for 24 minutes. After she finished her homework, she did her three chores.

- It took her 23 minutes to clean her room.
- . It took her 8 minutes to feed the animals.
- . It took her 10 minutes to set the table.

What time did she finish her homework? How long did it take her to finish her three chores? Show all your work.

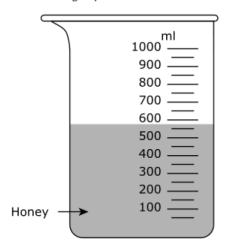
Enter your answer and your work in the space provided.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
11	3.MD.2-3	3.MD.A.2	Measurement & Data	PARCC Released Items Spring 2017

Part A

What is the amount of honey in the measuring cup rounded to the nearest 100 milliliters (ml)?



Enter your answer in the box.



Part B

Jay needs 740 milliliters (ml) of honey to make banana bread. He has 290 ml. How many more milliliters of honey does Jay need?

- A. 300 ml
- B. 450 ml
- C. 550 ml
- D. 750 ml

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
12	3.C.4-3	OGL	Reasoning	

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
13	3.C.4-1	OGL	Reasoning	

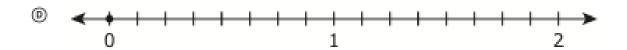
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
14	3.NF.3c	3.NF.A.3.C	Number & Operations - Fractions	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

42. Which number line shows a point at $\frac{8}{8}$?









Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
15	3.MD.7d	3.MD.C.7.D	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

- 19. A tablet has a rectangular screen with a width of 7 inches and a length of 9 inches. Select the three ways to calculate the area of the screen, in square inches.
 - 7 × 7
 - 7 × 9
 - ⊚ 9×7
 - 9 × 9
 - (a) 7+7+7+7+7+7+7
 - (F) 9+9+9+9+9+9

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
16	3.D.2	SHK	Modeling	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

4. Part A

Nolan has 16 pennies in one jar and 94 pennies in another jar.

He uses some of the pennies to buy a pencil that costs 25 cents. What is the total number of pennies Nolan has left after he buys the pencil? Show your work.

Enter your answer and your work in the space provided.

Continued on next page.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
16	3.D.2	SHK	Modeling	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Part B

Nolan saves some more pennies and now has 187 pennies all in one jar. He finds 10 more pennies in his pocket.

What is the total number of pennies Nolan has after he adds the 10 pennies from his pocket to the jar?

Enter your answer in the box.

_	_	_	_	_	_
	0				
0	0	0	0	0	0
1	1	1	1	1	1
3	2	2	2	2	2
3	3	3	3	3	3
(4)	4	4	4	(4)	(4)
3	(3)	(3)	(3)	(3)	(3)
0	0	0	0	0	0
7	7	3	7	0	0
3	(8)	(8)	(8)	(8)	(8)
9	9	9	9	9	9

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
16	3.D.2	SHK	Modeling	PARCC Released Items Spring 2017

Several of the students in Ms. Gregory's class were in a jumping contest. The lengths of two students' jumps are shown.

- Kevin's jump was 41 inches.

Mark's jump was 17 inches.
Part A
Tamara jumped 19 inches farther than Mark.
How long was Tamara's jump?
Enter your answer in the box.
inches
Part B
Xavier's jump was 16 inches shorter than Kevin's jump.
How far did Xavier jump?
Enter your answer in the box.
inches

Continued on next page.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
16	3.D.2	SHK	Modeling	PARCC Released Items Spring 2017

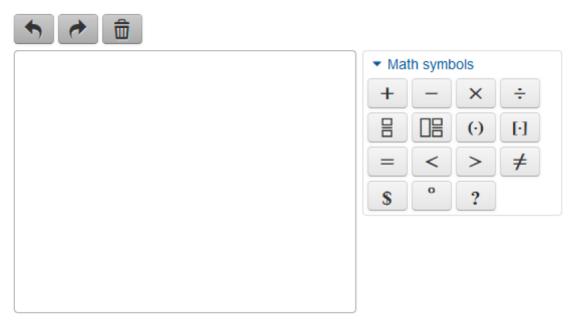
Part C

Jason also took a jump. The total distance the five students jumped was 152 inches.

- What is the total distance the other four students jumped?
- How far did Jason jump?

Show all your work.

Enter your answers and show your work in the space provided.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
17	3.MD.1-1	3.MD.A.1	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Ana starts eating lunch at 12:15 p.m. She finishes eating lunch 40 minutes later.

Which clock shows the time that Ana finishes eating lunch?









Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
17	3.MD.1-1	3.MD.A.1	Measurement & Data	PARCC Released Items Spring 2017

What is the time shown on the clock?



- A. 11:09
- © B. 11:11
- © C. 11:14
- © D. 11:16

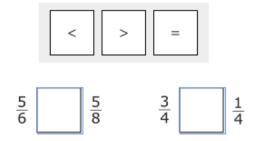
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
18	3.NF.3d	3.NF.A.3.D	Number & Operations - Fractions	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2015

$\frac{2}{6}$	<	
Se	lect	the three fractions that make this comparison true.
	A.	$\frac{3}{6}$
	В.	$\frac{2}{8}$
	C.	$\frac{2}{4}$
	D.	$\frac{2}{3}$
	E.	$\frac{1}{6}$

[Oifficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
	18	3.NF.3d	3.NF.A.3.D	Number & Operations - Fractions	PARCC Released Items Spring 2017

Two pairs of fractions are shown. Which symbol correctly compares each pair of fractions?

Drag and drop the symbol that correctly compares each pair of fractions into each box.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
19	3.C.4-4	OGL	Reasoning	PARCC Released Items Spring 2017

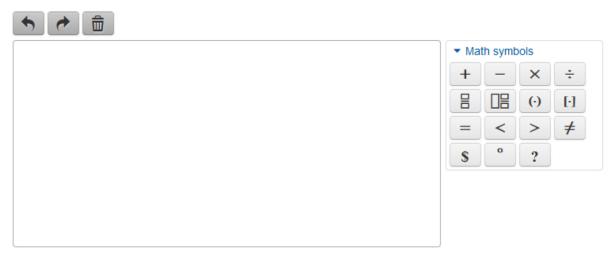
Damian wrote a sentence using the fractions $\frac{2}{3}$ and $\frac{2}{6}$.

"The numerators of $\frac{2}{3}$ and $\frac{2}{6}$ are equal, so the fractions are equal."

Damian is incorrect in his reasoning.

- Explain why Damian is incorrect in his reasoning about numerators.
 Write a correct comparison for ²/₃ and ²/₆ using < or >.
 Explain why your reasoning is correct.

Enter your answer and your explanations in the space provided.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
20	3.MD.1-2	3.MD.A.1	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Kevin makes muffins.

- . It takes 8 minutes to mix the batter.
- . The muffins bake for 17 minutes.
- . The muffins then cool for 5 minutes.

What is the total amount of time	, in minutes, Kevin spends mixing, baking, and cooling the muffins?
Enter your answer in the box.	
	minutes

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
20	3.MD.1-2	3.MD.A.1	Measurement & Data	PARCC Released Items Spring 2017

1	0.	

Kyle spends a total of 47 minutes working in his garden	. He spends 14 minutes planting vegetables and
19 minutes pulling weeds. He spends the rest of the tim	ne picking berries.

vvnat is tr	ne amount of t	time that Kyle	e spenas p	icking	berri
Enter you	ır answer in th	ie box.			
	7				

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
21	3.C.4-6	OGL	Reasoning	

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
22	3.OA.2	3.OA.A.2	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

- 16. Which three statements can be represented by the expression 24 ÷ 4?
 - A Jake makes 24 muffins. He gives away 4 muffins.
 - ® Collin has 24 toy trucks. He sorts them into groups of 4 trucks each.
 - Amira has 24 trading cards. She puts them into piles containing 4 cards each.
 - ® Rosemary puts 24 stickers in each book. She uses enough stickers to fill 4 books.
 - © Steven fills a new bookshelf with 24 books. He puts the same number of books on each of the 4 shelves.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
23	3.MD.8	3.MD.D.8	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

 Lavina wants to place a fence around a rectangular play area for her rabbits. The play area will be 7 feet long and 4 feet wide.

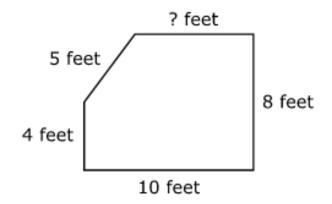
What is the total length of fence, in feet, Lavina needs to place around the play area?

Enter your answer in the box.

5	(1) (2)	(1) (2) (3)	00000	(1) (2) (3)	(1) (2)
0	3)	<u> </u>	(4) (8) (9)	<u> </u>	➂
)	(8)	⑧	⑦ ③ ⑨	⑧	⑧

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
23	3.MD.8	3.MD.D.8	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

The shape shown has a perimeter of 34 feet.



What is the length of the side that is missing a number?

Enter your answer in the box.

feet

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
23	3.MD.8	3.MD.D.8	Measurement & Data	PARCC Released Items Spring 2017

26.

Sean will put a border around a rectangular place mat that has a perimeter of 26 inches.

What is the missing length of the side of the place mat?

Enter your answer in the box.

inches	
--------	--

7 inches

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
24	3.NF.3a-1	3.NF.A.3.A	Number & Operations - Fractions	Illustrative Mathematics

3.NF Snow Day



Task

Alec and Felix are brothers who go to different schools. The school day is just as long at Felix' school as at Alec's school. At Felix' school, there are 6 class periods of the same length each day. Alec's day is broken into 3 class periods of equal length. One day, it snowed a lot so both of their schools started late. Felix only had four classes and Alec only had two. Alec claims his school day was shorter than Felix' was because he had only two classes on that day. Is he right?



3.NF Snow Day
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Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
24	3.NF.3a-1	3.NF.A.3.A	Number & Operations - Fractions	Illustrative Mathematics

3.NF Jon and Charlie's Run



Alignments to Content Standards: 3.NF.A.3.a

Task

Jon and Charlie plan to run together. They are arguing about how far to run. Charlie says,

I run $\frac{3}{6}$ of a mile each day.

Jon says,

I can only run $\frac{1}{2}$ of a mile.

If Charlie runs $\frac{3}{6}$ of a mile and Jon runs $\frac{1}{2}$ of a mile, explain why it is silly for them to argue. Draw a picture or a number line to support your reasoning.



3.NF Jon and Charlie's Run Typeset May 4, 2016 at 20:31:57. Licensed by Illustrative Mathematics under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License .

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
25	3.C.4-7	SHK	Reasoning	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

33. Part A

What is the number with the **least** value that can be made with the digits 6, 7, and 5 using all the digits only once?

- ® 657
- @ 675
- © 567

Part B

Daniel says the number with the **greatest** value he can make with the digits 5, 7, and 6 using the digits only once is 657 because the 7 is in the place with the greatest value.

- Explain why Daniel is not correct.
- What is the number with the greatest value he can make using all the digits only once?
- . Explain how you know this number has the greatest value.

Enter your answer and your explanations in the space provided.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
25	3.C.4-7	SHK	Reasoning	PARCC Released Items Spring 2017

27.

The table shows the numbers of different types of animals a park ranger counted in a park.

Park Animal Count

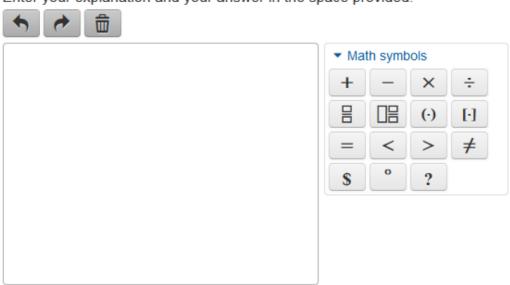
Type of Animal	Number of Animals
Deer	18
Fox	13
Raccoon	29
Squirrel	32

Part A

Nicole says there are 722 animals in the park because $\ 1+1+2+3=7$ and $\ 8+3=11$, $\ 9+2=11$, and $\ 11+11=22$.

Explain the error that Nicole made. Then write the total number of animals counted in the park.

Enter your explanation and your answer in the space provided.



Continued on next page.

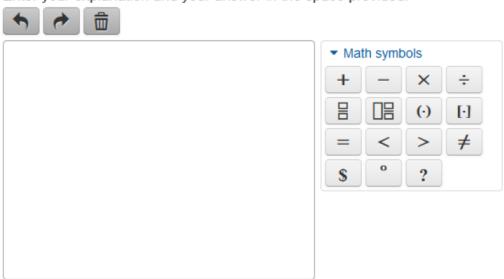
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
25	3.C.4-7	SHK	Reasoning	PARCC Released Items Spring 2017

Part B

Nicole says there are 21 more squirrels than foxes counted in the park because $\ 30-10=20$ and $\ 3-2=1$.

Explain the error Nicole made. Then write how many more squirrels than foxes were counted in the park.

Enter your explanation and your answer in the space provided.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
26	3.NF.2	3.NF.A.2	Number & Operations - Fractions	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

7. Which number line shows the correct location of the number $\frac{5}{3}$?







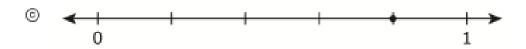


Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
26	3.NF.2	3.NF.A.2	Number & Operations - Fractions	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

13. Which number line shows a point at $\frac{5}{6}$?









Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
26	3.NF.2	3.NF.A.2	Number & Operations - Fractions	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

28. Mia placed point P on the number line.



- Give the value of the number P as a fraction.
- What does the denominator of your fraction represent on the number line?
- What does the numerator of your fraction represent on the number line?
 Enter your answer and your explanation in the space provided.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
27	3.Int.1	3.NBT.A.1 3.NBT.A.2	Multiple	MC ² PARCC Practice Test Item
27	3.1111.1	3.NBT.A.3 3.OA.D.8		Packets-Preparing for Spring 2017

24. Enter your answer in the box.

0	(•)	(A)	(①	<u> </u>	(B)
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Ō			Ō		
3	(2)	(2)	(2)	(2)	(2)
3	(3)	3	3	➂	(3)
		-	(1)		
➂	➂	➂	➂	➂	(3)
(3)		-	0	-	-
\bigcirc	0	0	\bigcirc	0	(7)
(3)	-		(3)	19000	
\odot	(9)	(0)	9	(9)	(9)

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
27	3.Int.1	3.NBT.A.1 3.NBT.A.2 3.NBT.A.3 3.OA.D.8	Multiple	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

37. Enter your answer in the box.

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W	U	W	0	\Box	\mathbb{R}^{2}
3	(2)	(2)	(2)	(2)	(2)
(3)	(3)	$^{(2)}$	(3)	$^{(3)}$	(3)
(3)	(4)	$(\overline{4})$	(4)	$(\overline{4})$	(4)
(5)	(5)	(5)	(3)	(5)	
			0		
0	(0)	(\mathcal{I})	(\mathcal{O})	(\mathcal{I})	
(3)					
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Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
27	3.Int.1	3.NBT.A.1 3.NBT.A.2 3.NBT.A.3 3.OA.D.8	Multiple	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Use the information provided to answer Part A and Part B for question 40.

The owners of a new toy store have 888 puzzles to sell.

- · They sell 237 puzzles the first month.
- . They sell 461 puzzles the second month.

40. Part A

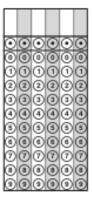
Which of these shows the three given numbers, each rounded to the nearest 10?

- 880, 230, 470
- ® 880, 230, 460
- © 890, 240, 470
- 890, 240, 460

Part B

Use the rounded numbers to find about how many puzzles the owners have left to sell.

Enter your answer in the box.



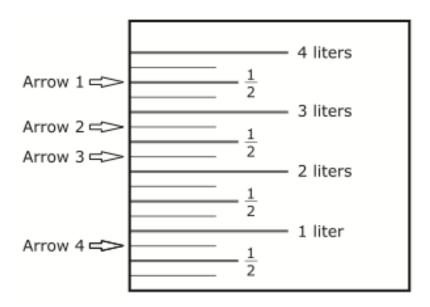
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
28	3.C.1-1	OGL	Reasoning	

Pending New PARCC Released Test Items

Difficulty Order	Evidence Statement	Common Core State Standard	Domains	Source
		3.MD.A.2	Measurement & Data	
29	29 3.Int.5	3.NBT.A.1		MC ² PARCC Practice Test Item
29	5.1111.5	3.NBT.A.2	Number & Operations	Packets-Preparing for Spring 2017
		3.NBT.A.3	in Base Ten	

21. Gwen pours about 3 liters of water into a container.

Which arrow shows about how much water Gwen poured into the container?



- Arrow 1
- ® Arrow 2
- © Arrow 3
- Arrow 4

Difficulty Order	Evidence Statement	Common Core State Standard	Domains	Source
		3.MD.A.2	Measurement & Data	
29	3.Int.5	3.NBT.A.1		MC ² PARCC Practice Test Item
29	3.1111.5	3.NBT.A.2	Number & Operations	Packets-Preparing for Spring 2017
		3.NBT.A.3	in Base Ten	

24. Enter your answer in the box.

_	_	$\overline{}$			
100	(3)	(3)	(2)	(3)	(3)
$ \cdot \rangle$	\odot	\odot	0	\odot	3
(20)	(20)	$(\overline{\alpha})$	(0)	G_{ij}	(2)
M	1	ω	ω	W	1
$ G\rangle$	(1)	\odot	(1)	α	$(\widehat{1})$
\simeq	4000	700	400	400	4000
(2)	(2)	(2)	(2)	(2)	(2)
7000	75007	7000	7500	******	75007
(3)	3	(3)	(3)	(3)	(3)
lσ»					
12	13	(4)	(4)	(4)	(3)
130	(3)	(B)	(B)	(B)	(B)
					-
\mathbf{m}	(a)	(B)	(B)	(B)	(a)
	700	400	400	700	7007
(7)	\bigcirc	(T)	\bigcirc	(T)	(7)
100	(2)	0	0	0	100
M	13	(3)	(3)	(3)	(3)
(9)	100	100	(9)	100	$(\overline{9})$
<u>122</u>	10	12	131	12	3

Difficulty Order	Evidence Statement	Common Core State Standard	Domains	Source
		3.MD.A.2	Measurement & Data	
29	3.Int.5	3.NBT.A.1		MC ² PARCC Practice Test Item
29	5.1111.5	3.NBT.A.2	Number & Operations	Packets-Preparing for Spring 2017
		3.NBT.A.3	in Base Ten	

- 17. Which two ways show how to find the value of 7 x 40?
 Select the two correct answers.
 - 7 × 4
 - 4 × 10
 - © 7×4×10
 - 7 groups of 4 ones
 - © 7 groups of 4 tens

Difficulty Order	Evidence Statement	Common Core State Standard	Domains	Source
		3.MD.A.2 3.NBT.A.1	Measurement & Data	MC ² PARCC Practice Test Item
29	3.Int.5	3.NBT.A.2	Number & Operations	Packets-Preparing for Spring 2017
		3.NBT.A.3	in Base Ten	

On a farm, there is a large storage tank that holds water.

	_	-4	Λ
г	a	π	н

Each day in May, 60 liters of water are used on the farm.

What is the total amount of water, in liters, used on the farm in 7 days?

Enter your answer in the box.

	liters
--	--------

Part B

The storage tank holds 500 liters of water when full.

During the first 5 days in January after the tank was filled, 386 liters of water were used on the farm.

What is the amount of water, in liters, that remains in the tank after those 5 days?

Enter your answer in the box.

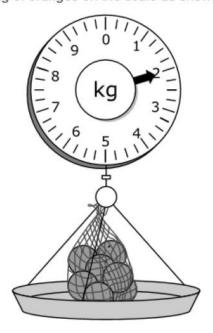
ĺ	liters

Difficulty Order	Evidence Statement	Common Core State Standard	Domains	Source
		3.MD.A.2	Measurement & Data	
29	3.Int.5	3.NBT.A.1		PARCC Released Items
29	5.1111.5	3.NBT.A.2	Number & Operations in	Spring 2017
		3.NBT.A.3	Base Ten	

20.

Part A

Mr. Smith, the principal, placed a bag of oranges on the scale as shown.



Mr. Smith bought 60 bags of oranges for a school event. How many kilograms of oranges did he buy?

- A. 2 kilograms
- B. 62 kilograms
- C. 80 kilograms
- D. 120 kilograms

Continued on next page.

Difficulty Order	Evidence Statement	Common Core State Standard	Domains	Source
		3.MD.A.2	Measurement & Data	DARCC Dalace d House
29	3.Int.5	3.NBT.A.1		PARCC Released Items
23	3.1110.3	3.NBT.A.2	Number & Operations in	Spring 2017
		3.NBT.A.3	Base Ten	

Part B

Mr. Smith bought 500 liters of juice for the event. After the event they had 29 liters of juice left over. How many liters of juice did they use at the event?

- A. 471 liters
- B. 481 liters
- C. 571 liters
- D. 581 liters

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
30	3.NF.3b-1	3.NF.A.3.B	Number & Operations - Fractions	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

29. Which three comparisons are true?

- (B) $\frac{3}{4} = \frac{6}{8}$
- (a) $\frac{1}{4} = \frac{4}{8}$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
30	3.NF.3b-1	3.NF.A.3.B	Number & Operations - Fractions	PARCC Released Items Spring 2017

23.

Select the two equations that are correct.

- \square A. $\frac{1}{6} = \frac{3}{8}$
- \blacksquare B. $\frac{2}{3} = \frac{4}{6}$
- \square C. $\frac{3}{4} = \frac{7}{8}$
- \square D. $\frac{4}{8} = \frac{1}{2}$
- \blacksquare E. $\frac{5}{6} = \frac{5}{8}$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
31	3.OA.8	3.OA.A.3 3.OA.B.6 3.OA.C.7 3.OA.D.8	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Bryan has 48 cupcakes in 6 boxes. Each box holds an equal number of cupcakes. Bryan uses this equation to find how many cupcakes are in each box.

$$48 \div 6 = ?$$

Create a different equation Bryan could use to find the number of cupcakes in each of the 6 boxes.

Select from the drop-down menus to correctly complete the equation.

Choose	▼ Choose	Choose	= 48
•		•	
?	+	?	
6	-	6	
7	x	7	
42	÷	42	
48		48	

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
		3.OA.A.3		
31	3.OA.8	3.OA.B.6	Operations &	MC ² PARCC Practice Test Item
31	3.UA.6	3.OA.C.7	Algebraic Thinking	Packets-Preparing for Spring 2017
		3.OA.D.8		

34. Connie solved the math problem shown.

$$40 \div 8 = ?$$

Which equation can Connie use to check her answer?

- 8 + ? = 40
- \[
 \begin{aligned}
 & 40 + 8 = ?
 \]
- © 8×? = 40
- 8 × 40 = ?

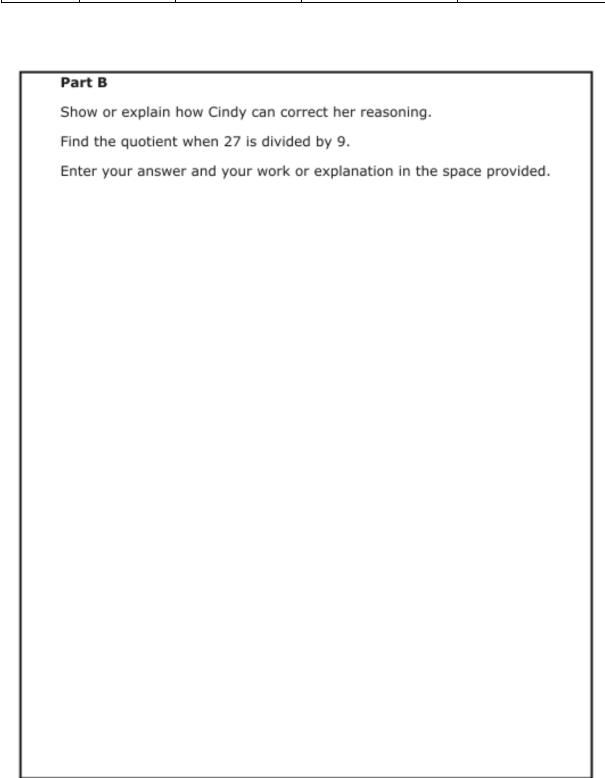
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
31	3.OA.8	3.OA.A.3 3.OA.B.6 3.OA.C.7 3.OA.D.8	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Use the information provided to answer Part A and Part B for question 8.

Cindy is finding the quotient for 27 \div 9. She says, "The answer is 18 because addition is the opposite of division and 9 + 18 = 27."

8.	Part A
	Identify the incorrect reasoning in Cindy's statement.
	Enter your explanation in the space provided.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
31	3.OA.8	3.OA.A.3 3.OA.B.6 3.OA.C.7 3.OA.D.8	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
31	3.OA.8	3.OA.A.3 3.OA.B.6 3.OA.C.7 3.OA.D.8	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

- 9. Select the three equations that are correct.

 - (a) $48 \div 8 = 6$
 - © 4×9 = 38
 - 30 ÷ 5 = 8
 - (c) 42 ÷ 7 = 6

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
31	3.OA.8	3.OA.A.3 3.OA.B.6 3.OA.C.7 3.OA.D.8	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

14. Select the correct equation.

A.
$$35 \div 7 = 5$$

B.
$$45 \div 5 = 8$$

c.
$$3 \times 8 = 32$$

D.
$$4 \times 7 = 21$$

Difficult Order	*	Common Core State Standard	Domain	Source
31	3.OA.8	3.OA.A.3 3.OA.B.6 3.OA.C.7 3.OA.D.8	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Use the information provided to answer Part A and Part B for question 18.

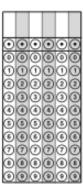
Third-grade students took a total of 1,000 pictures for the yearbook during the school year.

- · Ted took 72 pictures.
- · Mary took 48 pictures.

18. Part A

What is the total number of pictures taken by the rest of the third-grade students during the school year?

Enter your answer in the box.



Part B

Ella took 8 more pictures than Ted took. How many more pictures did Ella take than Mary?

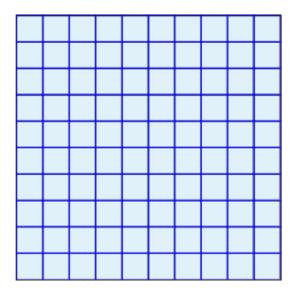
Enter your answer in the box.

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Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
31	3.OA.8	3.OA.A.3 3.OA.B.6	Operations & Algebraic	MC ² PARCC Practice Test Item
31	3.UA.6	3.OA.C.7 3.OA.D.8	Thinking	Packets-Preparing for Spring 2017

Adam needs to put 19 pictures from Classroom A and 23 pictures from Classroom B on a bulletin board. He wants to display the pictures in an array.

Select a box for each picture to create an array to represent the pictures on the bulletin board.



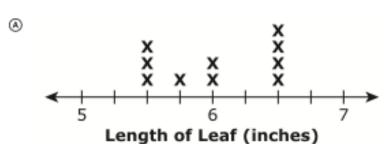
Difficulty Order	Evidence Statement	Common Core State Standard	andard Domain Source	Source
32	3.MD.4	3.MD.B.4	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

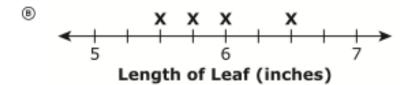
43. Eric measures 10 leaves with a ruler. He records the lengths as shown.

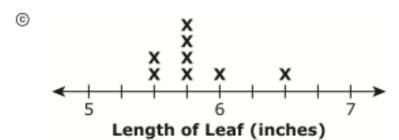
Lengths of Leaves (inches)

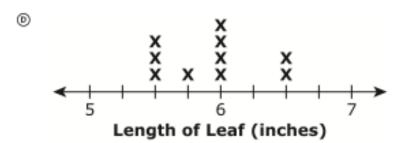
$$5\frac{1}{2}$$
, $6\frac{1}{2}$, $6\frac{1}{2}$, 6, $5\frac{3}{4}$, $5\frac{1}{2}$, 6, 6, $5\frac{1}{2}$, 6

Which line plot shows the lengths of the leaves recorded correctly?





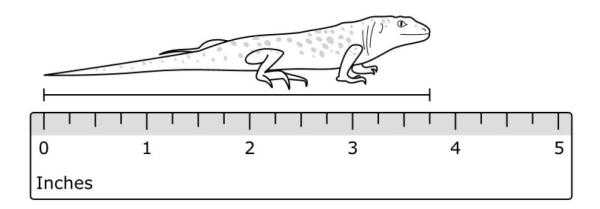




Oifficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
32	3.MD.4	3.MD.B.4	Measurement & Data	PARCC Released Items Spring 2017

36.

Brandi measures the length of a lizard as shown.



What is the length of the lizard?

- lacktriangle A. $3\frac{1}{4}$ inches
- \odot C. $3\frac{3}{4}$ inches
- D. 4 inches

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
33	3.C.3-2	OGL	Reasoning	

Pending New PARCC Released Test Items

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
34	3.C.2	OGL	Reasoning	

Pending New PARCC Released Test Items

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
35	3.NBT.3	3.NBT.A.3	Numbers & Operations in Base Ten	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

- 17. Which two ways show how to find the value of 7 x 40?
 Select the two correct answers.
 - 7 × 4
 - ® 4 × 10
 - © 7 × 4 × 10
 - 7 groups of 4 ones
 - © 7 groups of 4 tens

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
35	3.NBT.3	3.NBT.A.3	Numbers & Operations in Base Ten	PARCC Released Items Spring 2017

What numbers are needed to make the equations true?

Enter your answers in the spaces provided. Enter only your answers.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
36	3.NBT.2	3.NBT.A.2	Numbers & Operations in Base Ten	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

2. Which expression could be used to find the value of 465 + 229 ?

$$8 40 + 20 + 60 + 20 + 5 + 9$$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
36	3.NBT.2	3.NBT.A.2	Numbers & Operations in Base Ten	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

24. Enter your answer in the box.

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0	0	①	<u> </u>	①	0
0	0	0	0	0	0
0	0	0	0	0	0
(2)	(2)	(2)	(2)	2	(2)
3	3	3	(3)	(3)	(3)
(4)	(4)	(4)	(4)	(4)	(1)
(3)	(3)	(3)	(B)	(3)	(6)
(0)	0	0	0	0	(0)
(3)	0	0	0	0	0
(8)	(3)	(3)	(3)	(3)	(3)
(0)	(9)	(9)	(9)	(9)	(9)

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
36	3.NBT.2	3.NBT.A.2	Numbers & Operations in Base Ten	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Enter your answer in the box.

$$512 + \boxed{} = 568$$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
36	3.NBT.2	3.NBT.A.2	Numbers & Operations in Base Ten	PARCC Released Items Spring 2017

Add.
527 + 359 Enter your answer in the box.
Enter your answer in the box.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
37	3.OA.3-4	3.OA.A.3	Operations & Algebraic	MC ² PARCC Practice Test Item
		3.OA.A.4	Thinking	Packets-Preparing for Spring 2017

Enter your answers in the boxes.

$$4 \times 8 =$$

$$6 \times \boxed{} = 42$$

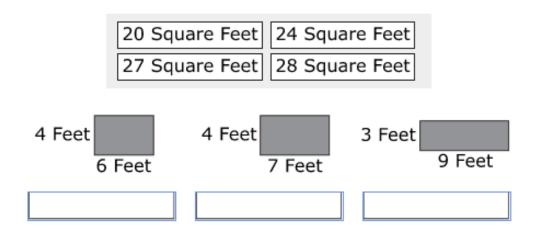
$$\div 7 = 5$$

ficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
37	3.OA.3-4	3.OA.A.3 3.OA.A.4	Operations & Algebraic Thinking	PARCC Released Items Spring 2017

16.
Bev has exactly 48 feet of ribbon. She cuts the ribbon into pieces that are each 6 feet long.
What is the total number of pieces of ribbon Bev has?
Enter your answer in the box.

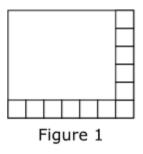
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
38	3.MD.7b-1	3.MD.C.7.B	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Drag and drop the correct area into the box below each shaded rectangle.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
38	3.MD.7b-1	3.MD.C.7.B	Measurement & Data	PARCC Released Items Spring 2017

Figure 1 is a rectangle with two sides covered in tiles.



Which equation shows a way to find the area of Figure 1?

- \bigcirc A. $5 \times 6 = 30$
- B. $5 \times 7 = 35$
- \odot C. $6 \times 6 = 36$
- \odot D. $6 \times 7 = 42$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
39	3.OA.7-2	3.OA.C.7	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Enter your answers in the boxes.

$$9 \times 9 =$$

$$5 \times 6 =$$

$$63 \div 7 = \boxed{}$$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
39	3.OA.7-2	3.OA.C.7	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Enter your answers in the boxes.

$$7 \times 9 =$$

$$30 \div 5 =$$

$$4 \times 9 =$$

$$42 \div 7 = \boxed{}$$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
39	3.OA.7-2	3.OA.C.7	Operations & Algebraic Thinking	PARCC Released Items Spring 2017

Which three of these number facts are correct?

$$\blacksquare$$
 A. $4 \div 1 = 3$

$$lacksquare$$
 B. $6 \div 2 = 3$

$$lacksquare$$
 C. $2 imes 6 = 12$

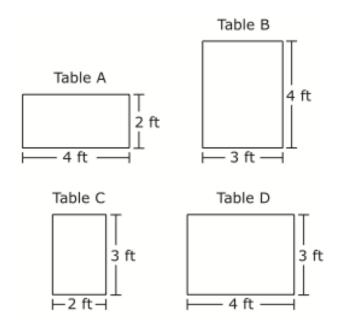
$$\hfill \Box$$
 D. $3\times 4=14$

$$\blacksquare$$
 E. $5 \times 4 = 20$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
40	3.C.1-3	OGL	Reasoning	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Use the information provided to answer Part A and Part B for question 36.

Tori and Leo set up their clubhouse with four tables. These rectangles represent the tabletops.



36. Part A

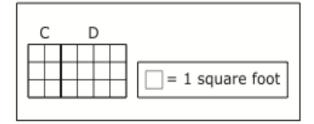
Identify **two** tabletops with the same area, in square feet, and explain how you know that the areas are equal.

Enter your answers and your explanation in the space provided.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
40	3.C.1-3	OGL	Reasoning	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Part B

The grid shows Table C and Table D placed end to end to make a new, larger tabletop.



Tori uses the expression $3 \times (2 + 4)$ to find the total area of the new, larger tabletop.

Leo uses the expression $(3 \times 2) + (3 \times 4)$ to find the total area of the new, larger tabletop.

- · Find the total area, in square feet, of the new, larger tabletop.
- Use the grid to explain why both Tori's expression and Leo's expression are correct.

Enter your answer and your explanation in the space provided.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
41	3.MD.2-2	3.ND.A.2	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

12. Carla buys apples and peaches at the store. The mass of the apples is 724 grams. The mass of the peaches is 471 grams.

How much greater is the mass, in grams, of the apples than the mass of the peaches?

Enter your answer in the box.

		_		_	
	0				
	0				
0	0	0	0	0	0
2	2	2	2	2	2
3	3	3	3	3	3
(4)	(4)	(4)	(4)	(4)	(4)
3	3	3	3	(3)	3
➅	0	(6)	⊚	0	0
7	0	0	7	7	7
(8)	(8)	(8)	(8)	(8)	(3)
9	9	9	9	9	9

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
42	3.MD.3-3	3.MD.B.3	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Use the information provided to answer Part A and Part B for question 10.

Mr. Conley delivers packages. The bar graph shows the total number of packages he delivered on five days last week.



10. Part A

What is the total number of packages Mr. Conley delivered on Monday and Tuesday?

- ® 340
- © 350
- 360

Part B

How many **more** packages did Mr. Conley deliver on Monday and Tuesday than he did on Thursday and Friday?

Enter your answer in the box.

Г					
0	0	0	0	0	0
0	0	0	0	0	0
-	~	-	1	-	~
-	-	-	2	-	~
-	~	~	3	~	~
100	~	~	0	~	-
-	~	-	⊚	-	-
-	-	-	0	-	-
-		-	0	-	-
-	~	-	®	-	-
$^{(9)}$	(9)	(9)	⑨	(9)	(0)

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
42	3.MD.3-3	3.MD.B.3	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

35. Jana gets a sticker for every 5 minutes she spends on her chores each day. She puts them on a picture graph as shown.

Jana's Chores

Day	Minutes of Chores		
Monday	$\Rightarrow \Rightarrow \Rightarrow \Rightarrow$		
Tuesday	$^{\wedge}$ $^{\wedge}$ $^{\wedge}$ $^{\wedge}$ $^{\wedge}$		
Wednesday	$\Rightarrow \Rightarrow \Rightarrow \Rightarrow$		
Thursday	$^{\wedge}$ $^{\wedge}$ $^{\wedge}$ $^{\wedge}$ $^{\wedge}$ $^{\wedge}$		
Friday			

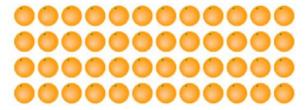
Jana spends a total of 130 minutes doing chores during the week. How many stickers should Jana get on Friday?

- A 5
- ® 7
- @ 19

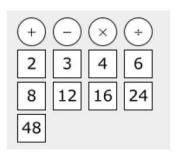
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
42	3.MD.3-3	3.MD.B.3	Measurement & Data	PARCC Released Items Spring 2017

Karen has 48 oranges. She puts the oranges into grocery bags.

- · Each bag has the same number of oranges.
- · Each bag has more than 2 oranges.
- · There were more than 4 bags.
- · There were no oranges left over.



Drag and drop the numbers into the blanks to make an equation showing how to find the number of oranges Karen put into each bag.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
43	3.OA.3-3	3.OA.A.3	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

27. Ken draws a rectangle with an area of 35 square inches. The width of the rectangle is 5 inches.

What is the length, in inches, of Ken's rectangle?

Enter your answer in the box.

_	_	_	_	_	_
000000000	000000000	<u> </u>	<u>●</u>	0000000000	000000000
(9)	(9)	(9)	0	(9)	(9)

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
43	3.OA.3-3	3.OA.A.3	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

38. Jane bought 24 light bulbs. The light bulbs come in packs of 4.

How many packs of light bulbs did Jane buy?

Enter your answer in the box.

(ZN	(2)	175	(2)	(2)	(3)
NO.	\odot	\odot	\odot	\odot	\odot
(W)	100	(W)	100	100	170
W	W	0	W	W	W
\odot	α	0	α	(T)	α
(2)	(2)	②	(2)	(2)	(2)
(3)	(3)	(3)	(3)	(3)	(3)
	-		-		_
(\mathfrak{G})	(4)	(4)	(4)	(4)	(4)
$\tilde{\phi}$	0	ō.	in.	0	0
쎋	\odot	➅	\odot	\odot	W
(A)	10	0	(A)	10	1
W	C)	W	6	6	100
(7)	(7)	(7)	(7)	(7)	(7)
	-	-	-	-	
(8)	(8)	⑧	(8)	(8)	(8)
	-		-		
(9)	(9)	(9)	(9)	(9)	(9)

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
44	3.OA.1	3.OA.A.1	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

- 1. Which two statements can be represented by the expression 4 × 8?
 - A teacher puts 8 chairs at each of 4 tables.
 - ® Tom buys 4 red markers and 8 black markers.
 - © Marie shares her 8 marbles equally among 4 friends.
 - There are 4 rows of flowers. There are 8 flowers in each row.
 - There are 8 ducks in the pond. Then, 4 more ducks join them.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
44	3.OA.1	3.OA.A.1	Operations & Algebraic Thinking	PARCC Released Items Spring 2017

Which can be represented by the expression 6×3 ?

- A. Henry draws 6 stars. He erases 3 stars.
- B. Jen draws 6 sets of stars. Then she draws 3 more stars.
- C. Nina draws 6 rows of stars. She draws 3 stars in each row.
- D. Barry draws 6 stars. Then he circles 3 equal groups of stars.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
45	3.OA.7-1	3.OA.C.7	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

- 9. Select the three equations that are correct.

 - (a) $48 \div 8 = 6$
 - © 4×9 = 38
 - 30 ÷ 5 = 8
 - (c) 42 ÷ 7 = 6

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
45	3.OA.7-1	3.OA.C.7	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

14. Select the correct equation.

A.
$$35 \div 7 = 5$$

B.
$$45 \div 5 = 8$$

c.
$$3 \times 8 = 32$$

D.
$$4 \times 7 = 21$$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
45	3.OA.7-1	3.OA.C.7	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

41. Which equations are true?

Select the three correct answers.

- 3 × 4 = 12
- © 10 ÷ 5 = 5
- 16 ÷ 2 = 8
- 0 × 6 = 0

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
45	3.OA.7-1	3.OA.C.7	Operations & Algebraic Thinking	PARCC Released Items Spring 2017

Which number sentences have a quotient of 4?

Select the three correct answers.

- \square A. $24 \div 6 = \square$
- B. 15 ÷ 3 = □
- \square C. $6 \div 2 = \square$
- \square D. $8 \div 2 = \square$
- E. 3 ÷ 1 = □
- \blacksquare F. $12 \div 3 = \square$

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
46	3.OA.4	3.OA.A.4	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

- 23. Select the equation that is true when the number 8 is put into the box.
 - A. 64 ÷ 🔲 = 8
 - B. $4 \times 4 = \Box$
 - C. 3 X 🔲 = 27
 - D. \square ÷ 2 = 2

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
46	3.OA.4	3.OA.A.4	Operations & Algebraic Thinking	PARCC Released Items Spring 2017

Which number will make the equation true?

Drag and drop the number into the box.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
47	3.OA.3-1	3.OA.A.3	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

6. Cade has 4 boxes. He puts 9 model cars in each box.

What is the total number of model cars Cade put in these boxes? Enter your answer in the box.

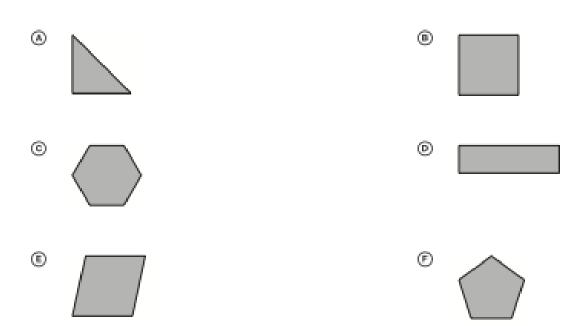
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$^{\circ}$	\odot	$^{\odot}$	0	$^{\circ}$	\odot
			0		
_	_	_	_	_	_
υ	U	O	0	U	U
(2)	(2)	(2)	2	(2)	(2)
_	_	_	_	_	_
3	છ	Ø	છ	ા	હ
(4)	(4)	(4)	(4)	(4)	(4)
_		_		_	_
_	_	_	(3)	_	_
(6)	(6)	(6)	⊚	(6)	(6)
_	_	_	ŏ	_	_
_	_	_	_	_	_
⑧	(8)	(8)	(8)	(8)	(8)
_	_	_	ŏ	_	_
NO.	w	w	w	اكا	No.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
47	3.OA.3-1	3.OA.A.3	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

- 20. Gina's bedroom floor is in the shape of a rectangle. It is 10 feet long and 9 feet wide. What is the area of Gina's bedroom floor?
 - 19 square feet
 - ® 38 square feet
 - @ 90 square feet
 - 109 square feet

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
48	3.G.1	3.G.A.1	Geometry	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

30. Which three shapes are quadrilaterals?



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
48	3.G.1	3.G.A.1	Geometry	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Sel	Select the three shapes that always have at least one pair of parallel sides.						
	Α.	triangle					
	В.	rhombus					
	C.	trapezoid					
	D.	rectangle					
	E.	quadrilateral					

Difficult Order	Y Evidence Statement	Common Core State Standard	Domain	Source
48	3.G.1	3.G.A.1	Geometry	PARCC Released Items Spring 2017

Select the correct title for the three shapes shown. Drag and drop the correct title into the box.



QuadrilateralsShapes with exactly 3 angles

TrianglesShapes with exactly 4 sides

TrianglesShapes with exactly 3 angles

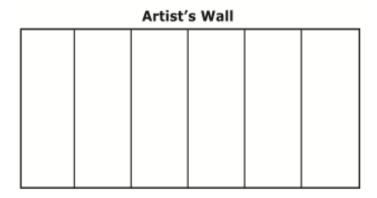
QuadrilateralsShapes with exactly 4 sides

1		
1		
1		
1		

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source	
49	3.OA.3-2	3.OA.A.3	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets- Preparing for Spring 2017	

Use the information provided to answer Part A and Part B for question 25.

An artist plans to paint a wall in a room. The wall is divided into 6 equal parts so that each part can be painted a different color.



25. Part A

The artist goes to the store to buy brushes and small cans of paint. He pays a total of \$94.

- He buys 8 brushes that cost \$5 each.
- The rest of the money is used for the 6 cans of paint. Each can of paint costs the same amount.

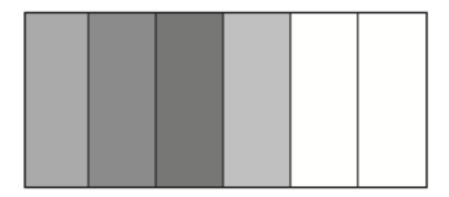
How much does each can of paint cost? Show your work or explain your answer.

Enter your answer and your work or explanation in the space provided.

Difficu Orde	*	Common Core State Standard	Domain	Source
49	3.OA.3-2	3.OA.A.3	Operations & Algebraic Thinking	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Part B

The artist starts painting the wall. The parts of the wall that look white are not painted yet.



Which statements about the wall are correct?

Select the **two** correct statements.

- Each painted part is $\frac{1}{4}$ of the whole wall.
- Each painted part is $\frac{1}{6}$ of the whole wall.
- © Each painted part is $\frac{4}{4}$ of the whole wall.
- The fraction of the wall not yet painted is ¹/₆.
- © The fraction of the wall not yet painted is ²/₄.
- © The fraction of the wall not yet painted is $\frac{2}{6}$.

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
50	3.MD.3-1	3.MD.B.3	Measurement & Data	Illustrative Mathematics

3.0A, MD, NBT Classroom Supplies



Task

Your teacher was just awarded \$1,000 to spend on materials for your classroom. She asked all 20 of her students in the class to help her decide how to spend the money. Think about which supplies will benefit the class the most.

Supplies	Cost
A box of 20 markers	\$5
A box of 100 crayons	\$8
A box of 60 pencils	\$5
A box of 5,000 pieces of printer paper	\$40
A package of 10 pads of lined paper	\$15
A box of 50 pieces of construction paper	\$32
Books and maps	
A set of 20 books about science	\$250
A set of books about the 50 states	\$400
A story book (there are 80 to choose from)	\$8
A map: there is one of your city, one for every state, one of the country, and one of the world to choose from	\$45
Puzzles and games	

Continued on next page.

[Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
	50	3.MD.3-1	3.MD.B.3	Measurement & Data	Illustrative Mathematics



Puzzles (there are 30 to choose from)	\$12
Board games (there are 40 to choose from)	\$15
Interactive computer games (math and reading)	\$75
Special Items	
A bean bag chair for the reading corner	\$65
A class pet	\$150
Three month's supply of food for a class pet	\$55
A field trip to the zoo	\$350

- a. Write down the different items and how many of each you would choose. Find the total for each category.
 - Supplies
 - Books and maps
 - Puzzles and games
 - Special items
- b. Create a bar graph to represent how you would spend the money. Scale the vertical axis by \$100. Write all of the labels.
- c. What was the total cost of all your choices? Did you have any money left over? If so, how much?
- d. Compare your choices with a partner. How much more or less did you choose to spend on each category than your partner? How much more or less did you choose to spend in total than your partner?



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
50	3.MD.3-1	3.MD.B.3	Measurement & Data	PARCC Released Items Spring 2017

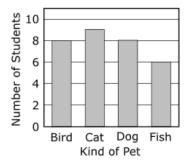
The table shows the favorite kind of pet of 30 students.

Favorite Kind of Pet

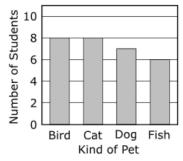
Kind of Pet	Number of Students
Bird	8
Cat	6
Dog	9
Fish	7

Which bar graph shows the same data as the table?

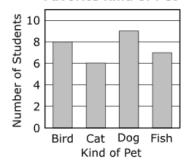
Favorite Kind of Pet



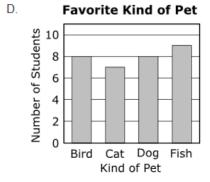
C. **Favorite Kind of Pet**



B. **Favorite Kind of Pet**



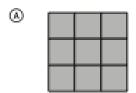
Favorite Kind of Pet



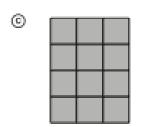
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
51	3.MD.6	3.MD.C.6	Measurement & Data	

39. Which three figures each have an area of 12 square inches?
Select the three correct answers.

= one square inch





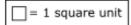


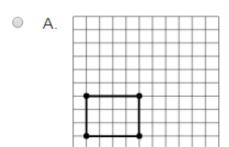


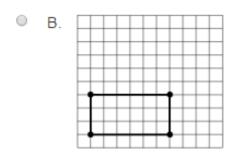


Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
51	3.MD.6	3.MD.C.6	Measurement & Data	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Which rectangle has an area of 24 square units?

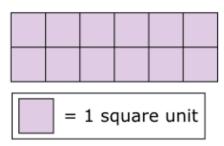






Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
51	3.MD.6	3.MD.C.6	Measurement & Data	PARCC Released Items Spring 2017

Kevin drew this figure.



What is the area, in square units, of the figure that Kevin drew?

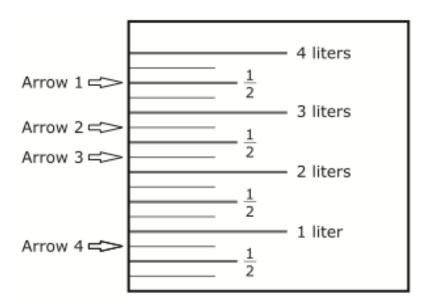
Enter your answer in the box.

|--|

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
52	3.MD.2-1	3.MD.A.2	Measurement & Data	MC ² PARCC Practice Test Item
				Packets-Preparing for Spring 2017

21. Gwen pours about 3 liters of water into a container.

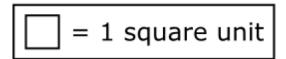
Which arrow shows about how much water Gwen poured into the container?



- Arrow 1
- ® Arrow 2
- © Arrow 3
- Arrow 4

Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
53	3.MD.5	3.MD.C.5 3.MD.C.5.A	Measurement & Data	PARCC Released Items Spring 2017

Which rectangle has an area of exactly 6 square units?

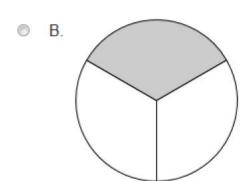


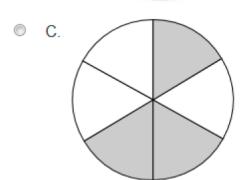
- © A.
- © B.
- © C.
- © D.

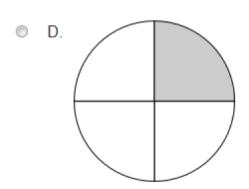
Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
54	3.NF.1	3.NF.A.1	Number & Operations - Fractions	PARCC Released Items Spring 2017

In each model, the circle equals 1 whole. Which model shows $\frac{3}{4}$ shaded?









Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
55	3.G.2	3.G.A.2	Geometry	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

11. Sandy draws a shape. She divides it into parts. Each part is $\frac{1}{8}$ the area of the shape. Which shape could be the one Sandy draws?

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Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
55	3.G.2	3.G.A.2	Geometry	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

22. Select the **two** shapes that have parts that are each $\frac{1}{6}$ of the area of the whole shape.

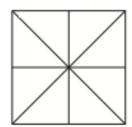
(A)



B



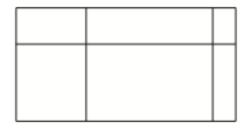
0



(D)



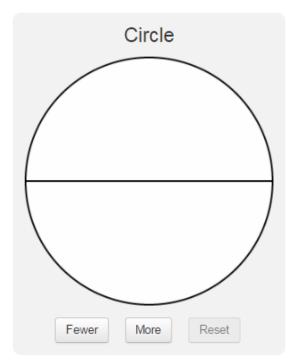
(E)



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
55	3.G.2	3.G.A.2	Geometry	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Use the More or Fewer buttons as many times as needed to divide the circle into 6 equal parts. Then shade $\frac{1}{6}$ of the area of the circle.

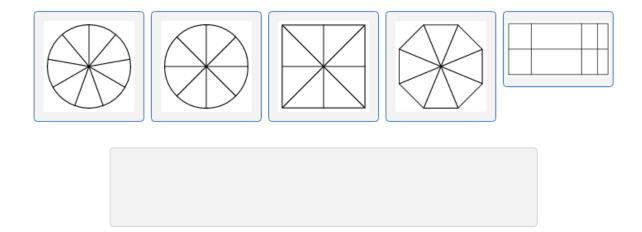
Divide the figure into the correct number of equal parts by using the More and Fewer buttons. Then shade by selecting the part or parts.



Difficulty Order	Evidence Statement	Common Core State Standard	Domain	Source
55	3.G.2	3.G.A.2	Geometry	MC ² PARCC Practice Test Item Packets-Preparing for Spring 2017

Which shapes have parts that are $\frac{1}{8}$ the area of their whole shape?

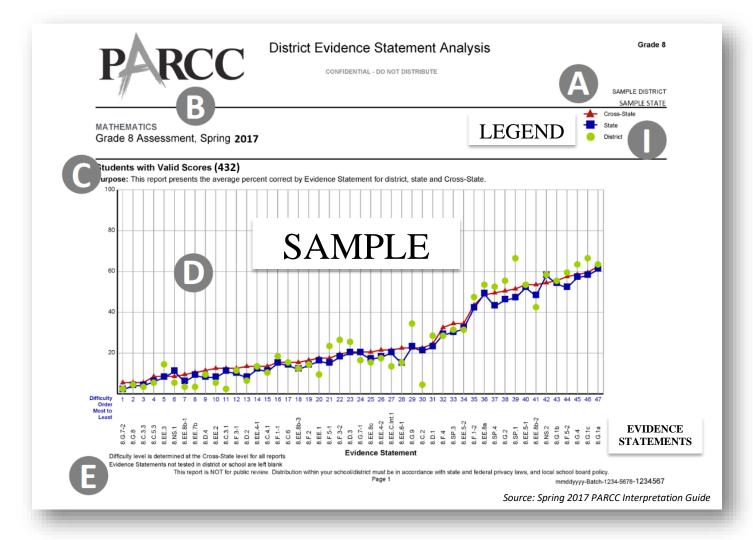
Drag and drop the **three** correct shapes into the box.



User's Guide

To support New Mexico educators in preparing students for the Spring 2018 PARCC Assessment, Mathematically Connected Communities (MC²) has again compiled *Practice Test Item Packets* posted on the MC² website. Each packet is **organized in order of difficulty (most to least)** based on the *Spring 2017 Evidence Statement Analysis* at the cross-state level used for all reports. Each grade-level/subject analysis contains a graph (see sample below) representing the following data:

- Average percent correct for each item represented by cross-state (aggregation of all states in PARCC consortium), state, district, and for the school report, at school level (see legend below)
- Evidence Statements are located along the bottom and left blank on the district/school report if not tested in that particular location (see below)



Each page contains **only one problem** and identifies the following for that item:

The practice test items are presented in order from most to least difficult based on the Spring 2017 Evidence Statement Analysis at the cross-state level used for all reports.

Since the harder problems are found at the beginning of the document, teachers may want to start with the easier items at the end.

Evidence Statements

Describe the knowledge and skills that the assessment item/task elicits from students and are derived from the Common Core State Standards for Mathematics (CCSS-M). Evidence Statements for grades 3 through 8 will begin with the grade

number. High School Evidence Statements begin with "HS" or with the label for a conceptual category. Numbers at the end of *Integrated Evidence Statements* and those focused on *Reasoning* and *Modeling* are added for assessment clarification and tracking purposes. Evidence Statement documents are available at: http://parcc-assessment.org/assessments/test-design/mathematics/math-test-specifications-documents

An Evidence Statement might:

- **1.** Use exact language as the CCSS-M. For example, Evidence Statement 8.EE.1 uses the exact language as standard 8.EE.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $32 \times 3-5 = 3-3 = 1/33 = 1/27$.
- **2. Be derived by focusing on specific parts of a standard.** For example, CCSS-M 8.F.5 *Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally* was split into the following two Evidence Statements:
 - 8.F.5-1 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear).
 - 8.F.5-2 Sketch a graph that exhibits qualitative features of a function that has been described verbally. Together these two evidence statements are CCSS-M 8.F.5.
- **3. Be integrative (Int).** Integrative Evidence Statements allow for the testing of more than one of the Common Core Standards and can be integrated across all content within a grade/course, all standards in a high school conceptual category, all standards in a domain, or all standards in a cluster. For example:
 - **Grade/Course-4.Int.2** (Integrated across Grade 4)
 - Conceptual Category—F.Int.1 (Integrated across the Functions Conceptual Category)
 - Domain-4.NBT.Int.1 (Integrated across the Number and Operations in Base Ten Domain)
 - Cluster—3.NF.A.Int.1 (Integrated across the Number and Operations—Fractions Domain, Cluster A)
- **4. Focus on mathematical reasoning.** A Reasoning Evidence Statement (keyed with C as per PARCC Claims Structure, see pg. 4) will state the type of reasoning that an item/task will require and content scope from the CCSS-M that the item/task will require students to reason about. Such as, Evidence Statement 3.C.2
 - Type of Reasoning: Base explanations/reasoning on the relationship between addition and subtraction or the relationship between multiplication and division.
 - Content Scope: Knowledge and skills are articulated in 3.OA.6

When the focus is on reasoning, the Evidence Statement may also require the student to reason about securely held knowledge (SHK-see pg. 4) from a previous grade.

5. Focus on mathematical modeling. A Modeling Evidence Statement (keyed with D as per PARCC Claims Structure, see pg. 4) will state the type of modeling that an item/task will require and the content scope from the CCSS-M that the item/task will require students to model about.

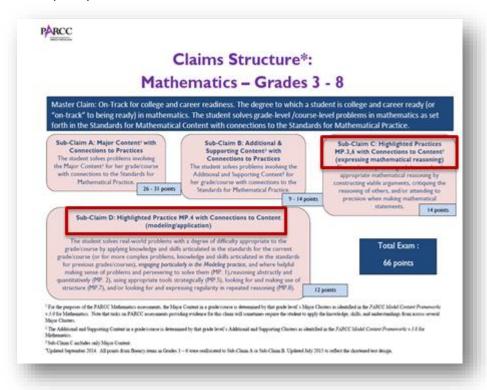
For example, Evidence Statement HS.D.5:

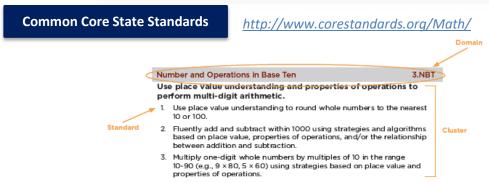
- Type of Modeling: Given an equation or system of equations, reason about the number or nature of the solutions.
- Content Scope: A-REI.11, involving any of the function types measured in the standards.

Evidence Statement 4.D.2 below is of an example in which an item/task aligned to the evidence statement will require the student to model *on grade level* (OGL), using *securely held knowledge* from a previous grade.

- Type of Modeling: Solve multi-step contextual problems with degree of difficulty appropriate to Gr. 4
- Securely Held Knowledge: requiring application of knowledge and skills articulated in 3.OA.A, 3.OA.8, 3.NBT, and/or 3.MD.

Sub-Claim C (expressing mathematical reasoning) and Sub-Claim D (modeling/application) in the PARCC Claims Structure are not explicitly found in the CCSS-M as domains but are included in the Mathematical Practices.





An Evidence Statement focusing on Reasoning or Modeling will not indicate a specific standard in the Common Core column because these are not explicitly found in the CCSS-M as a domain. Instead it will indicate:

- OGL-On Grade Level
- Securely Held Knowledge (SHK)-Ability to flexibly apply what one already knows to a non-routine or
 complex problem. For example, modeling is a sophisticated practice. This means that modeling and other
 complex tasks will naturally draw upon securely held knowledge and skills. Some tasks may demand
 flexible application of content knowledge first gained in previous grades to solve complex problems.
 Examples of standards which refer to securely held knowledge begin with the words Apply and Extend.

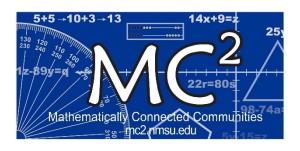
Domains

- Operations & Algebraic Thinking (OA)
- Number & Operations in Base Ten (NBT)
- Number & Operations-Fractions (NF)
- Measurement & Data (MD)
- Geometry

Sources

Identifies where the practice test items were excerpted from (e.g., MC2 PARCC Practice Test Item Packets; Illustrative Mathematics)

For more information, email mc2@nmsu.edu



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