3rd Grade Colorado State Practice Math Test

Colorado Practice Test Grade 3

Grade 3

THIRD SPACE
LEARNING

Questions

Name: ....   Class: ....

Date: ....   Score: ....
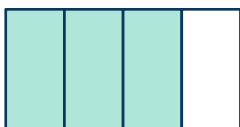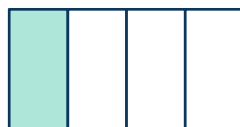
Unit 1

13 questions

Calculators are not permitted.

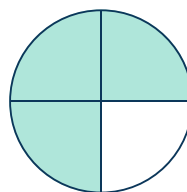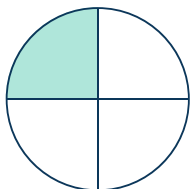**1**   Select the **three** models that represent $\frac{1}{4}$ of the figures shaded.
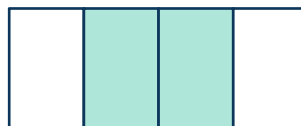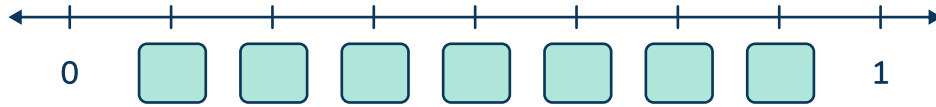
A.

D.

B.

E.

C.

F.

2 Place the number $\frac{5}{8}$ on the number line.

3 What is the value of 732-87?

Enter your answer in the box.

✏ Answer

4   Brenda is finding the quotient of $\frac{24}{3}$. She says "the answer is 21 because addition is the opposite of division and 3+21=24".

PART A:

Identify the incorrect reasoning in Brenda's statement.
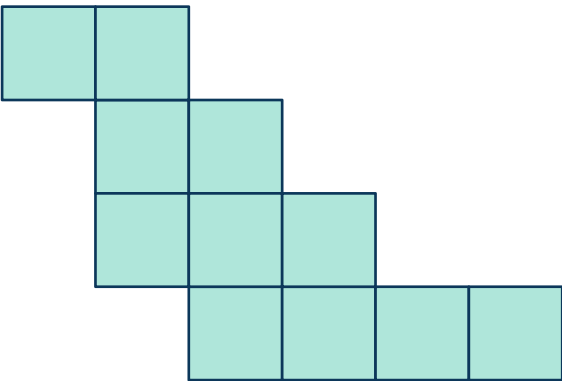
> ✎ Answer

PART B:

Show or explain how Brenda can correct her reasoning, then find the quotient when 24 is divided by 3.

> ✎ Answer

5 Select the boxes to show what is true for each of the shapes listed.

Shape	Is a quadrilateral	Has more than 4 sides
Square		
Pentagon		
Rectangle		
Hexagon		

6 The figure below is made up of squares. Find the area, in square centimeters, of the figure.

☐ = 1 square centimeter

Enter your answer in the box.

> ✎ Answer

7   On Monday Ivan read 17 pages in his book. For the next 4 days, Ivan will read 14 pages each day. At the end of the week, how many pages will Ivan have read in total? Show your work in the space provided.

✎ Answer

8   Enter your answers in the spaces provided:

$32 \div 8 =$ _____

$50 \div 5 =$ _____

$108 \div 12 =$ _____

9   Jenny is making friendship bracelets. Each of the bracelets needs 7 inches of string. If she wants to make 12 bracelets, how many inches of string will she need?

Enter your answer in the box.

✏ Answer

10 Lena is buying snacks for her road trip. She is going to buy 4 bags of popcorn, 1 package of gum, and 5 bags of pretzels. The table below shows the price of each snack.

Price of Snacks

Snack	Price
Bag of popcorn	$4.00
Package of gum	$3.00
Bag of pretzels	$5.00

Part A:

Write an equation showing the cost of buying four bags of popcorn.

4 x _____ = _____

Part B:

Lena only has $60 to spend on the snacks.
- Find the total cost of 5 bags of popcorn, 3 packages of gum, and 5 bags of pretzels.
- Explain or show if Lena will have any money left over.
- What is the total amount of money left over?

Writer you answer in the box below.

✎ Answer

11 Select the fraction that is larger than $\frac{2}{3}$

    A. $\frac{1}{2}$

    B. $\frac{4}{6}$

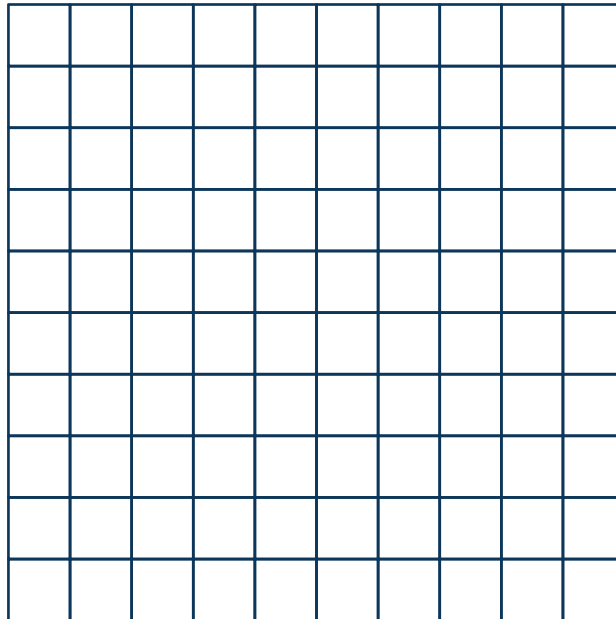   C. $\frac{3}{4}$

    D. $\frac{4}{8}$

12 Donny needs to put 14 chairs from classroom 1 and 18 chairs from classroom 2 into even rows in the library.

Part A:

Use the grid to shade in an appropriate array to represent the chairs in the library.

Part B:

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

✏ Answer

13 Lena has 6 10-liter bottles of water. How many total liters of water does she have?
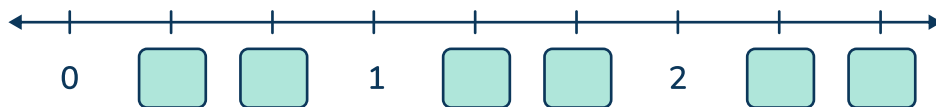
Enter your answer in the box.

✏️ Answer

Unit 2
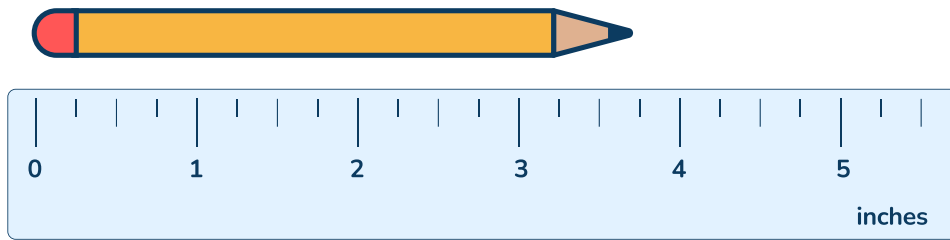
10 questions

Calculators are not permitted.

1   Place the improper fraction, $\frac{7}{3}$ in the correct space on the number line below.

2   What is the value of 7 x 60?

A. 480

B. 420

C. 490

D. 360

3 What is the length of the pencil in inches?

A. $3\frac{3}{4}$ inches

B. 3 inches

C. 4 inches

D. $3\frac{1}{2}$ inches

---

4 Which **two** statements can be represented by the expression 3 × 8.

A. A teacher needs 3 desks for each of the 8 groups.

B. There are 3 birds in a tree. Then, 8 more join them in the tree.

C. Jill buys 3 red balloons and 8 blue balloons.

D. There are 3 rows of chairs, with 8 chairs in each row.

E. Toni has 8 marbles and gives 3 of them away to his friends.

5   There are 12 people going to a show. They each have 3 snacks. Write an expression showing how many snacks the people have altogether.

Write your answer in the box.

✏ Answer

6   Two coaches and their teams collected canned goods for a food drive.

- Team A collected 182 cans.
- Team B collected 223 cans.
- Both coaches collected 45 cans.

Part A:

Which comparisons about the cans collected are correct? Select **three** comparisons.

A. 45 < 182
B. 182 < 45
C. 223 > 182
D. 223 < 45
E. 223 > 45

Part B:

Use the place value chart to show the total amount of cans Team A and Team B collected.

Hundreds	Tens	Ones

Part C:

The owner of a small food store donated 46 more cans. The coaches took all the cans and placed them together.

- Write an equation or equations that could be used to find the total number of cans, including the ones donated from the small food store.
- Find the total number of cans.
- Write the total number of cans in expanded form.

Use the space below to write your answer.
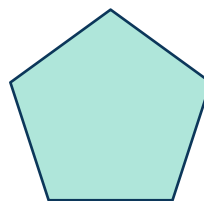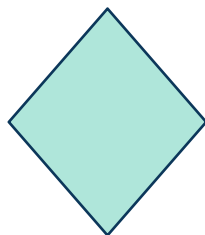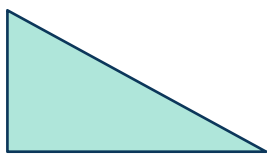

✏ Answer

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7 What number makes the equations true?

8 x _____ = 64

64 ÷ 8 = _____

    A. 6
    B. 8
    C. 9
    D. 7

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8 Which group of shapes only has quadrilaterals?

A.

B.
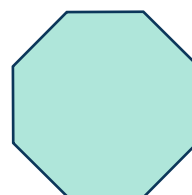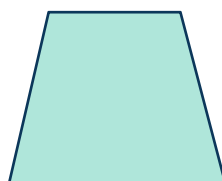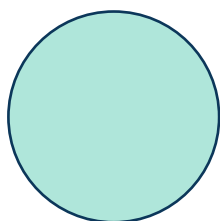
C.
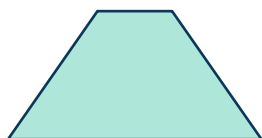
D.
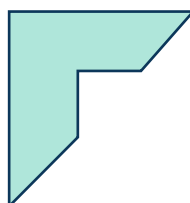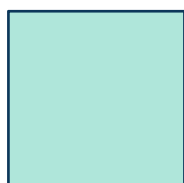
9   Use the information in the graph below to answer the questions.

Animal Shelter Pet Adoptions

Monday	🩷 🩷 🩷 🩷
Tuesday	🩷 🩷
Wednesday	🩷 🩷
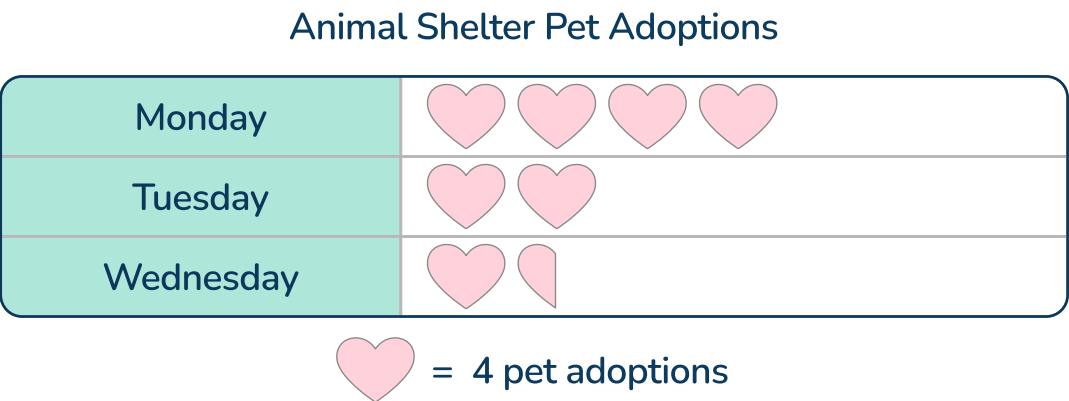
🩷 = 4 pet adoptions

Part A:

What is the total number of pet adoptions on Monday, Tuesday, and Wednesday?

A. 8

B. $6\frac{1}{2}$

C. 32

D. 30

Part B:

How many more pet adoptions were there on Monday than on Tuesday and Wednesday?

✎ Answer

10 Solve each equation.

5 x 12 = _____

132 ÷ 11 = _____

4 x 6 = _____

72 ÷ 8 = _____

Unit 3

10 questions

Calculators are not permitted.

1   Select **two** fractions that are equivalent to the fraction value on the number line.

A. $\dfrac{1}{4}$

B. $\dfrac{3}{8}$

C. $\dfrac{2}{8}$

D. $\dfrac{1}{3}$

E. $\dfrac{2}{6}$

---

2   Find the missing length, width, or perimeter for each rectangle in the table.

	Length (inches)	Width (inches)	Perimeter (inches)
Rectangle A	6 inches	5 inches	
Rectangle B	7 inches		32 inches
Rectangle C		4 inches	12 inches

3   Brandon and Brenda are twins. They decided to throw themselves a birthday party. They need to set up tables in their backyard for the party. The rectangles below represent the tops of the tables.

Table 1   2 ft

6 ft

Table 2   4 ft

5 ft

Table 3   3 ft

4 ft

Table 4   3 ft

6 ft
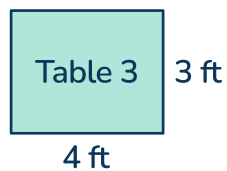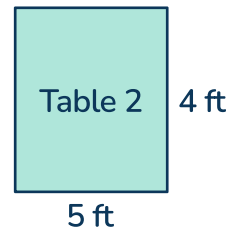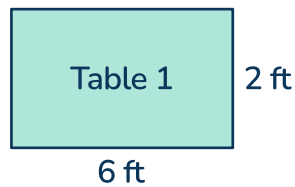
Part A:

Identify **two** tabletops with the same area.

✎ Answer

Part B:

The image below shows Table 3 and Table 4 placed together to make a larger table.

3 ft	Table 3	Table 4

4 ft   6 ft
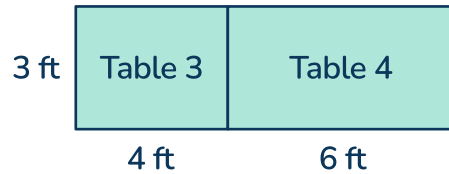
Brandon uses the expression 3 x (4 + 6) to find the area of the new large tabletop.

Brenda uses the equation (3 x 4) + (3 x 6) to find the total area of the new large tabletop.

Find the area of the new larger table and explain why both Brandon and Brenda are correct.

✎ Answer

4 A student practices gymnastics in preparation for the championship for 65 minutes. She starts practice at 4:15 PM. What time will she end practice?

Place your answer in the boxes below.

5 Neela has three turtles. Each turtle eats 3 ounces of food each day. Neela has 54 ounces of turtle food. How many more days can Neela feed her turtles with the food she has?

    A. 6 days
    B. 18 days
    C. 9 days
    D. 45 days

6 At a factory, there is a large storage tank for diesel.

Part A:

In a particular week in January, the factory uses 70 liters of gasoline per day. What is the total amount of gasoline, in liters, used at the factory in the 7 days?

✎ Answer

Part B:

The storage tank can hold a total of 800 liters of gasoline when it is full. During the first 4 days in February, after the tank was filled completely, 282 liters of gasoline was used. What is the amount of gasoline, in liters, that remains in the tanks after those 4 days?

✎ Answer

7   Select the **three** comparisons that are true.

A. $\frac{1}{2} > \frac{1}{3}$

B. $\frac{3}{4} < \frac{2}{3}$

C. $\frac{3}{6} > \frac{1}{2}$

D. $\frac{2}{3} = \frac{4}{6}$

E. $\frac{2}{6} = \frac{1}{3}$

8   What is 5,372 rounded to the nearest hundred?

A. 5,400

B. 5,300

C. 5,000

D. 5,370

9 Point M is on the number line below.

Part A:

What is the fraction that represents point M?

Point M = _____

Part B:

What does the denominator of your fraction represent as it relates to the number line? Write your answer in the space below.

> ✎ Answer

Part C:

What does the numerator of your fraction represent as it relates to the number line? Write your answer in the space below.
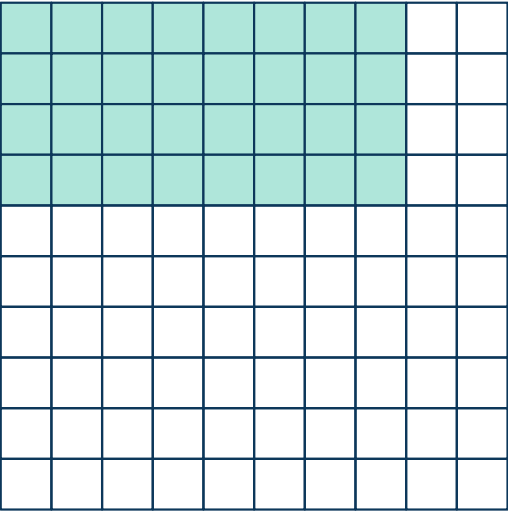
> ✎ Answer

10 Lucas collects 7 marbles each day. This creates a pattern of 7, 14, 21, ...

How many marbles will Lucas have at the end of the eighth day?

A. 28

B. 63

C. 56

D. 49

Answer Key

Unit 1			
Item number	**Correct answer**	**Standard(s)**	**DOK**
1	B, C, D	**3.NF.A.2**	DOK 2
2		**3.NF.A.2b**	DOK 2
3	645	**3.NBT.A.1**	DOK 1
4	**Part A:** The incorrect reasoning is that addition is not the opposite of division. Multiplication is the opposite of division. **Part B:** Multiplication is the opposite of division. $24 \div 3 = 8$ and $3 \times 8 = 24$	**3.OA.B.2**	DOK 3
5	Square: is a quadrilateral Pentagon: has more than 4 sides Rectangle: is a quadrilateral Hexagon: has more than 4 sides	**3.G.A.1**	DOK 2
6	11 square centimeters	**3.MD.D.8**	DOK 2
7	$17 + 14 + 14 + 14 + 14 =$ $17 + 4(14) =$ $17 + 56 = 73$ pages	**3.OA.D.8**	DOK 3
8	$32 \div 8 = 4$ $50 \div 5 = 10$ $108 \div 12 = 9$	**3.OA.C.7**	DOK 1
9	$7 \times 12 = 84$ 84 inches of string	**3.OA.A.3**	DOK 2

Georgia State Practice Math Test | Grade 3 | Answers

	Unit 1		
Item number	**Correct answer**	**Standard(s)**	**DOK**
10	**Part A:** 4 x $4.00 = $16.00 $16 Part B: 5 x $4.00 = $20.00 3 x $3.00 = $9.00 5 x $5.00 = $25.00 TOTAL: $54 Yes, Lena will have enough money because she has $60 and is spending $54. She will have $6 left over because $60 - $54 = $6	**3.OA.A.3** **3.NBT.A.2**	DOK 3
11	C	**3.NFA.3.d**	DOK 2
12	**Part A:** Possible answer: 4 rows by 8 columns **Part B:** In total, there are 32 chairs in the library. 4 x 8 = 32	**3.OA.A.3**	DOK 3
13	60 liters	**3.MD.A.1b**	DOK 1

	Unit 2		
Item number	Correct answer	Standard(s)	DOK
1		3.NF.A.2b	DOK 2
2	B	3.NBT.A.3	DOK 1
3	A	3.MD.A.2	DOK 1
4	A, D	3.OA.A.1	DOK 2
5	12 x 3	3.OA.A.3	DOK 2

6	**Part A:**
	A, C, E
	
	Part B:
	
	Hundreds Tens Ones
	  1 8 2
	  2 2 3
	
	  3 10 5
	
	TOTAL: 405 cans
	
	Part C:
	405 + 45 + 46 = 496 cans in total
		3.NBT.A	DOK 3

7	B	3.OA.B.5	DOK 1
8	C	3.G.A.1	DOK 1

Unit 2			
Item number	**Correct answer**	**Standard(s)**	**DOK**
9	**Part A:** D **Part B:** Monday: 16 adoptions Tuesday and Wednesday: 14 adoptions 16 - 14 = 2 2 more adoptions	**3.MD.B.3**	DOK 3
10	5 x 12 = 60 132 ÷ 11 = 12 4 x 6 = 24 72 ÷ 8 = 9	**3.OA.A.4**	DOK 1
Unit 3			
Item number	**Correct answer**	**Standard(s)**	**DOK**
1	A, C	**3.NF.A.3b**	DOK 2
2	**Rectangle A:** perimeter = 22 inches **Rectangle B:** width = 9 inches **Rectangle C:** length = 2 inches	**3.MD.D.8**	DOK 2

Georgia State Practice Math Test | Grade 3 | Answers

Unit 3			
Item number	Correct answer	Standard(s)	DOK
3	**Part A:** Tabletop 1 and tabletop 3 both have an area of 12 square feet **Part B:** They are both correct because the answer is the same and you can either find the areas separately and add them or view it as one large rectangle with dimensions 3 x 10. 3 x (4 + 6) 3 x 10 = 30 square feet (3 x 4) + (3 x 6) 12 + 18 = 30 square feet	**3.MD.C.7**	DOK 3
4	5:20	**3.MD.A.1**	DOK 2
5	A	**3.OA.D.8**	DOK 2
6	**Part A:** 490 liters **Part B:** 518 liters	**3.NBT.A.3** **3.OA.D.8** **3.NBT.A.2**	DOK 3
7	A, D, E	**3.NF.A.3**	DOK 2
8	A	**3.NBT.A.1**	DOK 1

	Unit 3		
Item number	Correct answer	Standard(s)	DOK
9	**Part A:** $\frac{6}{8}$ **Part B:** The denominator is the equal parts the line is broken into. There are 8 equal parts. **Part C:** The numerator is the place where M is on the number line. M is located at the 6th spot or placed at the 6th point between 0 and 1 meaning that it represents 6 parts out of the 8 equal parts.	**3.NF.A.1a** **3.NF.A.2a** **3.NF.A.2b**	DOK 3
10	C	**3.OA.D.9**	DOK 2

Breakdown of Assessment by domain				
Operations and Algebraic thinking (OA)	Number and Operations in Base Ten (NBT)	Number and Operations - Fractions (NF)	Measurement and Data (MD)	Geometry (G)
34%	19%	24%	18%	5%

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