



THIRD SPACE  
LEARNING

# 4th Grade Illinois Readiness Assessment Practice Test

Practice Test Grade 4

Grade 4

## Questions

Name: .....

Class: .....

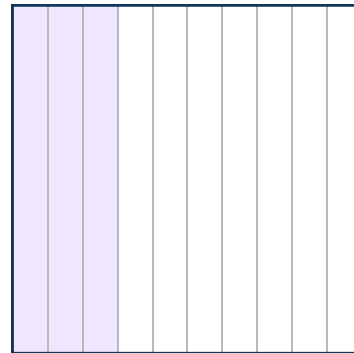
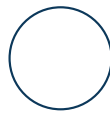
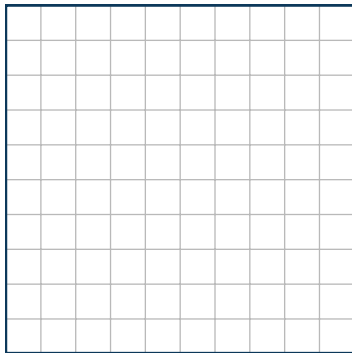
Date: .....

Score: .....

### Unit 1 - No Calculator

#### 8 questions

- 1 Which of the following statements correctly compares the two decimals below?



- A.  $0.23 > 0.3$
- B.  $0.03 < 0.23$
- C.  $0.3 > 0.23$
- D.  $23 < 3$

- 2 Nathan is planting a garden with his grandmother. They planted 4 times as many cucumber plants as squash plants. If there are 24 cucumber plants, how many squash plants are there?

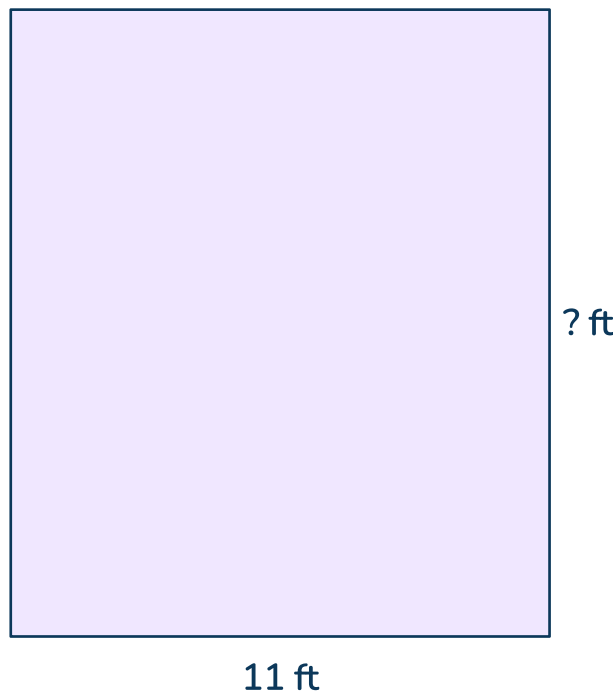
Use the box for your answer.

Answer

- 3 Using the following area model for multiplication, Colin solves  $37 \times 19$ . What is the missing number in the model?

300	70
?	63

- 4 Lucas's bedroom is in the shape of a rectangle. The area of his bedroom is  $143 \text{ ft}^2$  and the width of the room is 11 ft. (See diagram below)



What is the length of his bedroom? Use the space to write your answer.

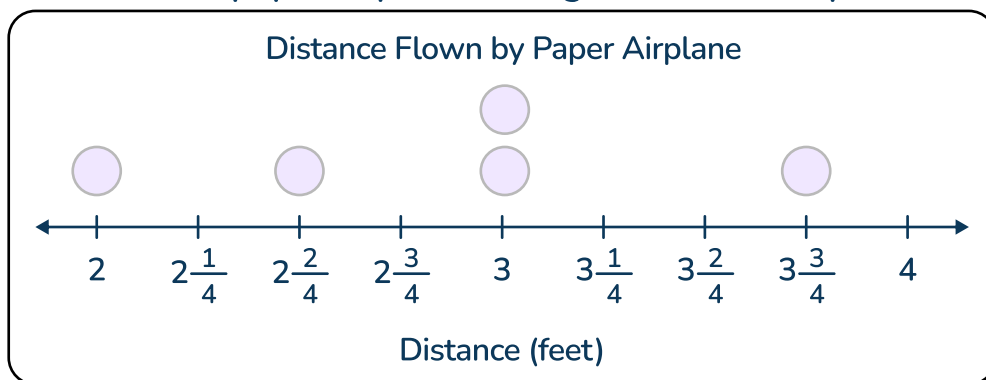
Length of the room:\_\_\_\_\_

- 5 Nigel volunteers at an animal shelter. They have 48 pounds of dog food. Nigel feeds the dogs in servings of ounces. How many ounces of dog food does the animal shelter have?

(1 pound = 16 ounces)

- A. 48 ounces
- B. 3 ounces
- C. 768 ounces
- D. 722 ounces

- 6 In science class, Mr. Smith had students make paper airplanes and then calculate the distance the planes traveled. The line plot shows the distances that Alex threw his paper airplane during this science experiment.



**Part A:**

How many times did Alex throw his paper airplane?

Answer

**Part B:**

What is the difference between the shortest and longest distance the paper airplane traveled?

Answer

7 Select all the numbers that are multiples of 8.

- A. 1
  - B. 4
  - C. 8
  - D. 18
  - E. 24
  - F. 32
  - G. 36
- 

8 PART A:

Nora walked 0.7 mile to school. Using a denominator of 10, what is the fractional equivalent of this distance?

 Answer

PART B:

Darrin walked  $\frac{3}{10}$  mile on Thursday and  $\frac{8}{100}$  miles on Friday. He tells Nora that he walked further than she did because  $\frac{3}{10} + \frac{8}{100} = \frac{38}{100}$  mile and 38 is greater than 7.

In the box below:

- Identify the incorrect reasoning of Darrin's statement and correct it.
- Using  $<$ ,  $>$ , or  $=$  write a correct comparison statement comparing the distance Nora walked and the distance Darrin walked.

 Answer

## Illinois Practice Test | Grade 4 | Questions

### Unit 2 - No Calculator

12 questions

- 1 Select the numbers that make the comparison true.

$$38,867 < \square$$

- A. 38,866
  - B. 38,876
  - C. 38,076
  - D. 38,808
  - E. 38,879
- 

- 2 Enter your answer on the space provided.

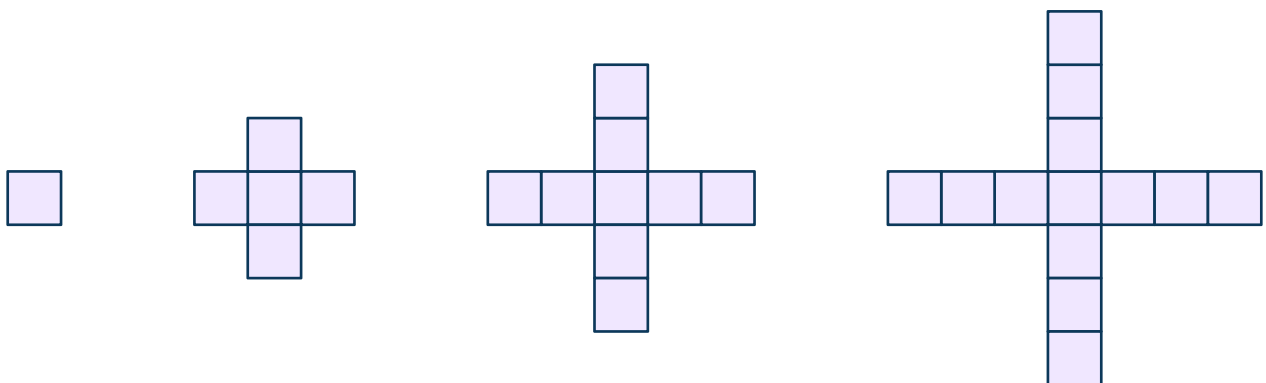
$$4,576 \times 6 = \underline{\hspace{2cm}}$$

- 3 Select the fractions that make both comparisons true.

$$\frac{3}{5} = \square \quad \frac{2}{5} < \square$$

- A.  $\frac{6}{10}$
- B.  $\frac{1}{2}$
- C.  $\frac{4}{10}$
- D.  $\frac{60}{100}$
- E.  $\frac{20}{100}$

- 4 Look at the pattern of figures below. If the pattern continues, how many squares will make up the 6th figure? Place your answer on the space provided.



Number of squares in the 6th figure: \_\_\_\_\_

- 5 A class is comparing the digits' values in the numbers 145,802 and 18,425.

Which statements are true? Select all that apply.

- A. The digit 2 in 45,802 is ten times larger than in 18,425.
- B. The digit 8 in 18,425 is ten times larger than in 45,802.
- C. The digit 5 in 18,425 is one thousand times smaller than in 45,802.
- D. The digit 4 in 45,802 is one thousand times larger than in 18,425.
- E. The digit 1 in 145,802 is one hundred times larger than in 18,425.

- 
- 6 Julian has a wire that is  $\frac{15}{6}$  meters long. He needs to cut the wire into two pieces. List two different pairs of fractions that could show the lengths in meters, of the two pieces. Explain how you found your answers. Use the space provided to write your answer.

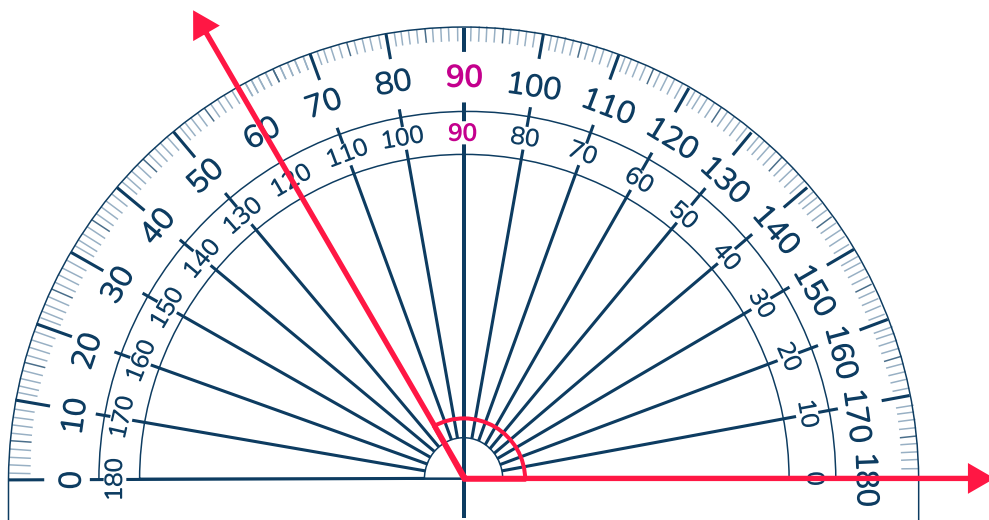
 Answer



- 7 Enter your answer in the space provided.

$$2133 \div 9 = \underline{\hspace{2cm}}$$

- 8 What is the measure of the angle? Use the space provided to write your answer.



Angle measures:

- 9 Over winter break, Alvin read 52 pages of a book. Oscar read 6 times as many pages of the same book. Oscar read 3 times as many pages as Nicole.

**Part A:**

Write an expression to represent the number of pages Oscar read and an expression to represent the number of pages Nicole read.

Oscar	Nicole

**Part B:**

Find the value of each expression that you created in Part A.

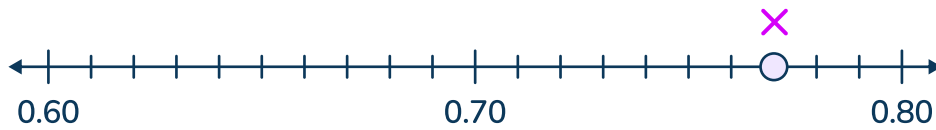
Use the space below to write your answer.

Answer

- 
- 10 Which two equations represent the statement “35 is 7 times as many as 5”?

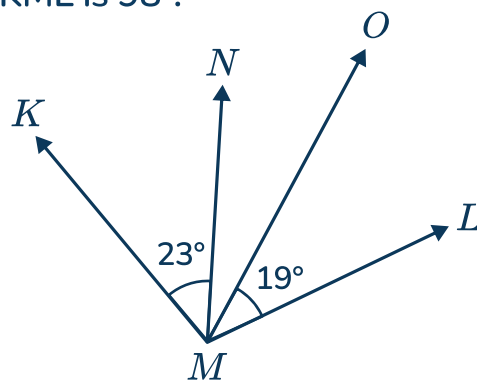
- A.  $35 = 5 + 7$
- B.  $35 = 7 \times 5$
- C.  $35 = 7 \times 7$
- D.  $35 = 20 + 15$
- E.  $35 = 5 \times 7$

- 11 What is the value of point X on the number line below? Use the space to write your answer.



X = \_\_\_\_\_

- 12 In the picture below, angle KML is  $98^\circ$ .



Part A:

What is the measure, in degrees, of angle NMO? Use the space below for your answer.

Answer

Part B:

What is the measure, in degrees, of angle KMO? Use the space below for your answer.

Answer

Part C:

Identify angle NMO and angle KMO as either an acute angle, obtuse angle or right angle. Use the space below to explain your thinking.

Answer

## Illinois Practice Test | Grade 4 | Questions

### Unit 3 - No Calculator

8 questions

- 1 Precious makes and sells homemade soaps. She is putting them into boxes. She places 6 bars of soap in each box. How many boxes does she need for 415 bars of soap?

Number of boxes: \_\_\_\_\_

---

- 2 Ursula subtracted with the standard algorithm.

	5,	7	9	1
–	3,	4	2	8
<hr/>				
	2,	3	7	7

What mistake did Ursula make? Use the space below to write your answer.

 Answer

3 Which expression is equivalent to  $4 \times \frac{2}{3}$ ?

A.  $8 \times \frac{1}{3}$

B.  $8 \times \frac{1}{2}$

C.  $8 \times \frac{2}{3}$

D.  $2 \times \frac{2}{3}$

4 Mrs. Crane's students choose extra curricular activities to do after school. The table below shows the fractions of all students who chose each activity.

Activity	Fraction of all students
Chess Club	$\frac{2}{10}$
School Spirit Club	$\frac{4}{10}$
Soccer Club	$\frac{3}{10}$
Theater Club	$\frac{1}{10}$

Part A:

Write an equation to find  $s$ , the fraction of students that chose the chess club and the theater club.

 Answer

Part B:

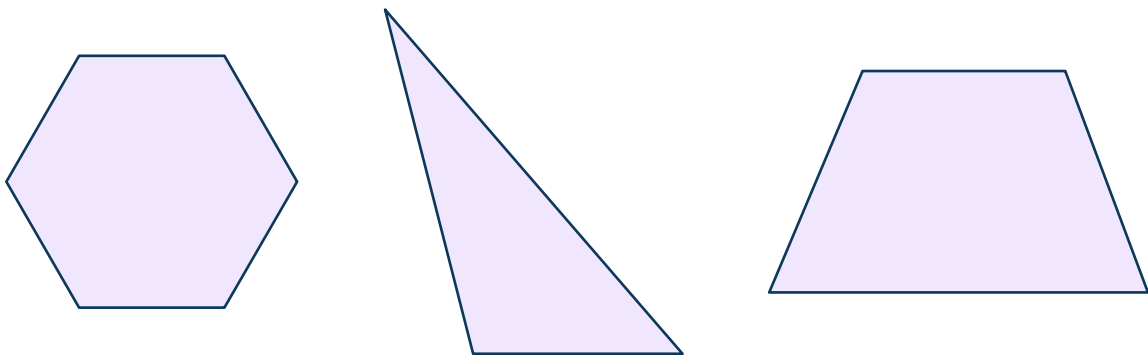
Find the fraction of students that chose chess and theater.

 Answer

- 5 Jayson had 1 whole watermelon. He ate  $\frac{1}{8}$  of the watermelon on Monday,  $\frac{3}{8}$  of the watermelon on Tuesday, and  $\frac{2}{8}$  of the watermelon on Wednesday. What fraction of the watermelon was left after Wednesday?

- A.  $\frac{1}{8}$
  - B.  $\frac{2}{8}$
  - C.  $\frac{5}{8}$
  - D.  $\frac{6}{8}$
- 

- 6 Theo sorts these figures into the same group.



Which statement best describes the figures in this group?

- A. Each figure has at least one pair of parallel sides.
- B. Each figure has at least one acute angle.
- C. Each figure is a regular polygon.
- D. Each figure has at least one obtuse angle.

- 7

Eli read for 35 minutes. Then he played his video game for 1 hour, before spending time eating lunch. If he started reading at 9:50 am and finished eating lunch at 12:05 pm, how long did he spend eating lunch?
- Answer:\_\_\_\_\_
- 8

A bakery is preparing a large order of mini-cupcakes for a wedding. The table shows how many batches of each flavor of cupcakes were ordered.


**PART A:**

Fill out the table to complete the work order to help the baker determine how many of each flavor mini-cupcake she needs for the order. The table shows how many cupcakes are made from one batch, and then how many batches of each flavor she needs to make. Find the grand total of all cupcake flavors.

Mini-Cupcake Flavor	Mini-Cupcakes in One Batch	Batches Ordered	Total Number of Mini- Cupcakes
Chocolate	36	9	_____
Peanut Butter Fudge	28	7	_____
Lemon Blueberry	25	6	_____
Vanilla	42	8	_____
Grand Total of Mini-Cupcakes Ordered =			_____

**PART B:**

The baker needs to transport all of the cupcakes to the wedding venue. She can fit 24 mini-cupcakes in one box. How many boxes will she need to transport all of the mini-cupcakes in boxes? Explain your answer in the space provided.

 Answer

## Answer Key - Unit 1

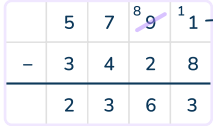
Item number	Correct answer	Standard(s)	DOK
1	C	4.NF.7	DOK 1
2	6 squash plants $4 \times 6 = 24$	4.OA.1, 4.OA.2	DOK 2
3	270	4.NBT.5	DOK 2
4	13 ft	4.MD.A.3	DOK 1
5	C	4.MD.2, 4.NBT.5	DOK 2
6	Part A: 5 times Part B: $1\frac{3}{4}$ ft	4.MD.B.4	DOK 3
7	C,E,F	4.OA.B.4	DOK 2
8	Part A: $\frac{7}{10}$ mile Part B: $\frac{3}{10} + \frac{8}{100} =$ $\frac{30}{100} + \frac{8}{100} = \frac{38}{100}$ $\frac{38}{100} < \frac{7}{10}$ because $\frac{7}{10} = \frac{70}{100}$ So, $\frac{38}{100} < \frac{70}{100}$	4.NF.C.5, 4.NF.C.7, 4.NF.A.2	DOK 3



## Answer Key - Unit 2

Item number	Correct answer	Standard(s)	DOK
1	B, E	4.NBT.A.2	DOK 1
2	27,456	4.NBT.B.5	DOK 1
3	A, Dle	4.NF.A.2	DOK 2
4	21	4.OA.C.5	DOK 2
5	B, C	4.NBT.A.3	DOK 2
6	Answers vary: $\frac{7}{6} + \frac{8}{6} = \frac{15}{6}$ $\frac{10}{6} + \frac{5}{6} = \frac{15}{6}$ $\frac{11}{6} + \frac{4}{6} = \frac{15}{6}$	4.NBT.B.3.b	DOK 3
7	237	4.NBT.B.6	DOK 1
8	120°	4.MD.C.5a	DOK 2
9	<b>Part A:</b> Oscar = $52 \times 6$ Nicole = $(52 \times 6) \div 3$ <b>Part B:</b> Oscar read: 312 pages Nicole read 104 pages	4.OA.A.2 4.OA.A.3	DOK 3
10	B, E	4.OA.A.1	DOK 2
11	$X = 0.77$	4.NF.C.6	DOK 2
12	<b>Part A:</b> $\angle KML = 98^\circ$ $\angle KML - \angle KMN - \angle OML = \angle NMO$ $98 - 23 - 19 = 56^\circ$ $\angle NMO = 56^\circ$ <b>Part B:</b> $\angle KMN + \angle NMO = \angle KMO$ $23 + 56 = 79^\circ$ $\angle KMO = 79^\circ$ <b>Part C:</b> Both angles are acute angles because their measures are between $0^\circ$ and $90^\circ$	4.MD.C.7, 4.G.A.2	DOK 3

## Answer Key - Unit 3

Item number	Correct answer	Standard(s)	DOK
1	70 boxes	4.OA.A.3	DOK 2
2		4.NBT.A.2	DOK 2
3	A	4.NF.A.2 4.NF.B.4b	DOK 2
4	Part A: $s = \frac{2}{10} + \frac{1}{10}$ Part B: $\frac{3}{10}$	4.NF.B.3.b 4.NF.B.3.d	DOK 3
5	B	4.NF.B.3.b	DOK 2
6	D	4.G.A.3	DOK 2
7	40 minutes	4.MD.A.1	DOK 3
8	<b>Part A:</b> 324 chocolate 196 Peanut butter fudge 150 Lemon blueberry 336 Vanilla 1006 - Grand total <b>Part B:</b> $1006 \div 24 = 41 \text{ r } 22$ 24 cupcakes in 41 boxes and 22 cupcakes in 1 box so a total of 42 boxes	4.OA.A.2 4.OA.A.3	DOK 3

## 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)
25%	22%	31%	17%	6%

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