



**THIRD SPACE  
LEARNING**

# 4th Grade CA CSS State Test

State Test Grade 4

**Grade 4**

## Questions

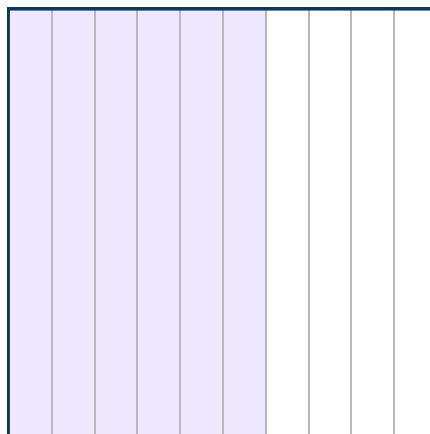
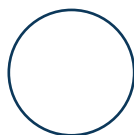
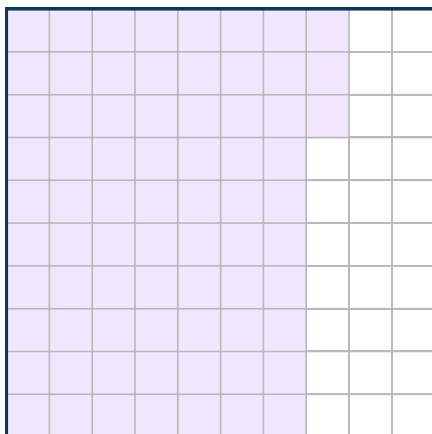
Name: .....

Class: .....

Date: .....

Score: .....

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



- A.  $73 > 60$
- B.  $0.7 < 0.6$
- C.  $0.73 > 0.6$
- D.  $7.3 < 6$

- 2 Two 4th grade classes are collecting box tops. Mr. Gutierrez's class collected 4 times as many box tops as Mrs. Collins' class. If Mr. Gutierrez's class collected 28 box tops, how many box tops did Mrs. Collins' class collect?

- A. 112 box tops
- B. 7 box tops
- C. 32 box tops
- D. 24 box tops

- 3 Using the following rectangular array, James solves  $42 \times 17$ .

400	20
280	?

What missing number will complete Colin's array?

- A. 9
  - B. 40
  - C. 120
  - D. 14
- 

- 4 Which set of numbers are all multiples of 12?

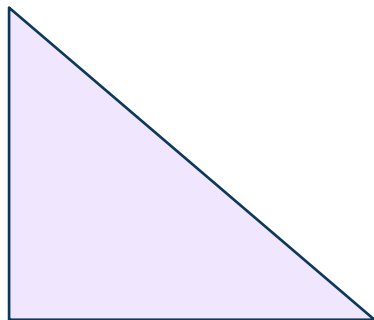
- A. 1, 2, 3, 4, 6, 12
- B. 12, 24, 36, 48
- C. 24, 36, 46, 60
- D. 1, 12, 24, 36

- 5 Kenny volunteers at the local food bank. They have 51 pounds of dry pasta. The pasta is given away in ounces. How many ounces of dry pasta does the food bank have?

(1 pound = 16 ounces)

- A. 67 ounces
  - B. 35 ounces
  - C. 768 ounces
  - D. 816 ounces
- 

- 6 How many lines of symmetry does the figure below have?



- A. 1
- B. 4
- C. 0
- D. 2

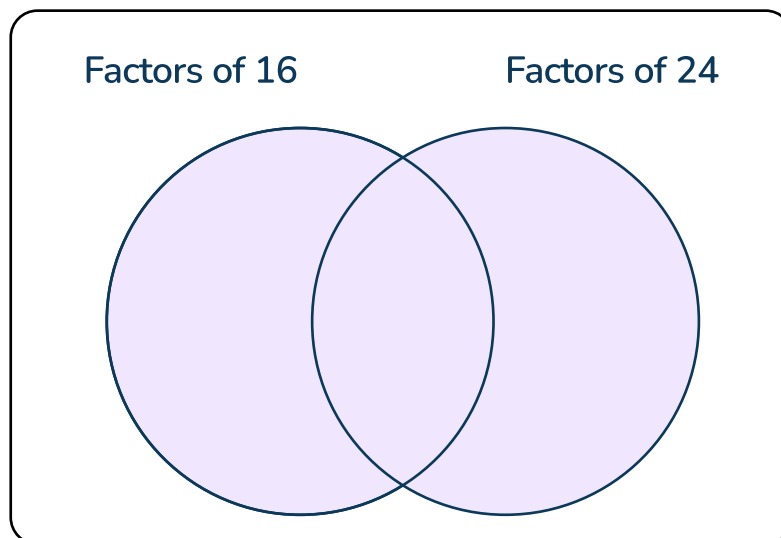


- 7 A class is comparing the digits' values in the numbers 43,712 and 171,421.

Which statements are true? Select all that apply.

- A. The digit 2 in 171,421 is ten times larger than in 43,712.
- B. The digit 7 in 43,712 is ten times larger than in 171,421.
- C. The digit 4 in 171,421 is one hundred times smaller than in 43,712.
- D. The digit 7 in 171,421 is one thousand times larger than in 43,712.
- E. The digit 2 in 171,421 is one hundred times larger than in 43,712.

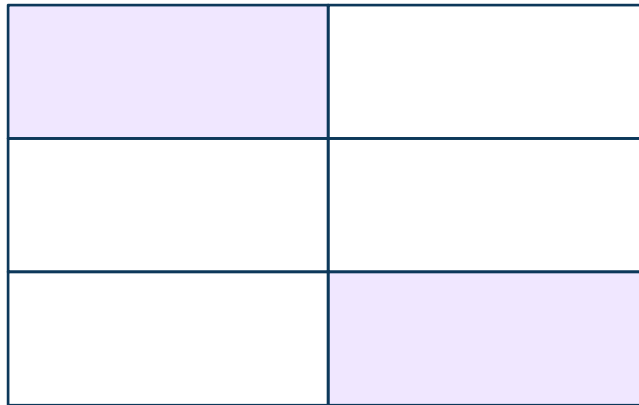
- 
- 8 Examine the Venn Diagram.



What is the greatest number that belongs in the middle of the Venn Diagram?

- A. 12
- B. 2
- C. 8
- D. 4

- 9 Aaron had a rectangle with 6 equal parts. He shaded 2 of them. Which fractions does Aaron's square show are equal?

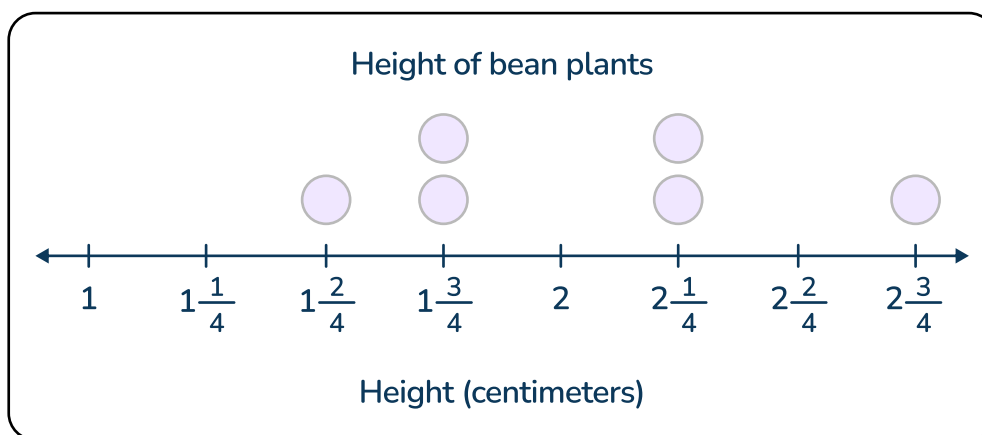


- A.  $\frac{1}{6} = \frac{1}{3}$
- B.  $\frac{2}{6} = \frac{1}{3}$
- C.  $\frac{1}{6} = \frac{1}{2}$
- D.  $\frac{2}{6} = \frac{1}{2}$

- 10 Serena makes and sells homemade bath bombs. She is putting them into boxes. She places 4 bath bombs in each box. How many boxes does she need for 282 bars of soap?

- A. 70
- B. 69
- C. 65
- D. 71

- 11 The line plot shows the heights of bean plants, planted by Mr. Jackson's class during a science experiment.

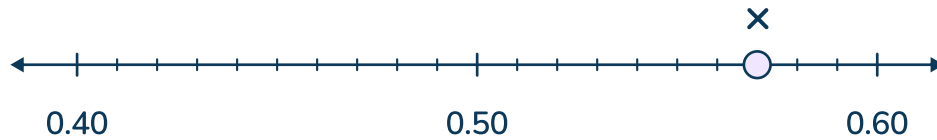


What is the difference between the shortest and tallest bean plant?

- A.  $1\frac{1}{4}$  centimeters
- B. 1 centimeters
- C.  $2\frac{2}{4}$  centimeters
- D.  $2\frac{3}{4}$  centimeters
- 
- 12 Which of the following numbers round to 800 when rounded to the nearest hundred? Select all that apply.

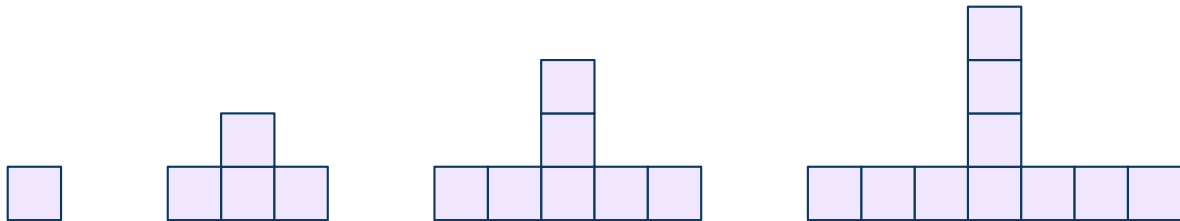
- A. 945
- B. 987
- C. 846
- D. 785
- E. 851

- 13 What is the value of point X on the number line below?



- A. 0.67
- B. 0.63
- C. 0.53
- D. 0.57

- 14 Look at the pattern of figures below. If the pattern continues, how many squares will make up the 6th figure?



- A. 13
- B. 16
- C. 21
- D. 25

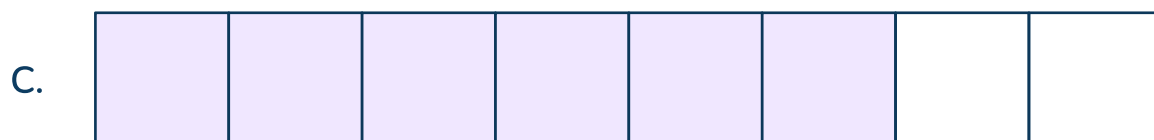
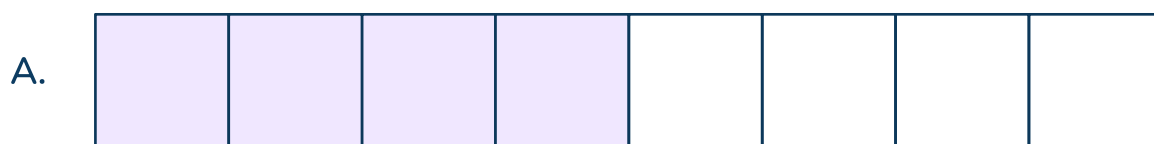
- 15 Ursula subtracted with the standard algorithm.

	5,	7	9	1
–	3,	8	2	1
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	2,	1	7	0

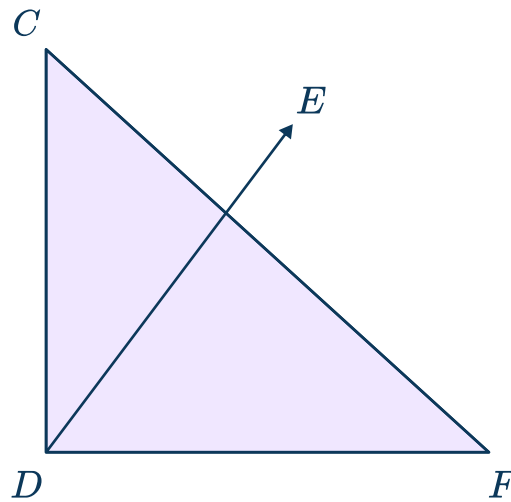
What mistake did Ursula make?

- A. She did not make any mistakes.
- B. She did not line up the place values correctly.
- C. She did not borrow 1 thousand to subtract 8 hundreds from 7 hundreds.
- D. She did not carry the extra hundred to make 8 hundreds on top.

- 16 The shapes are divided into equal parts. Which shape is  $\frac{1}{4}$  shaded?



- 17 The right triangle below is divided into two parts. The measure of angle CDE is 37 degrees. What is the measure of angle EDF?

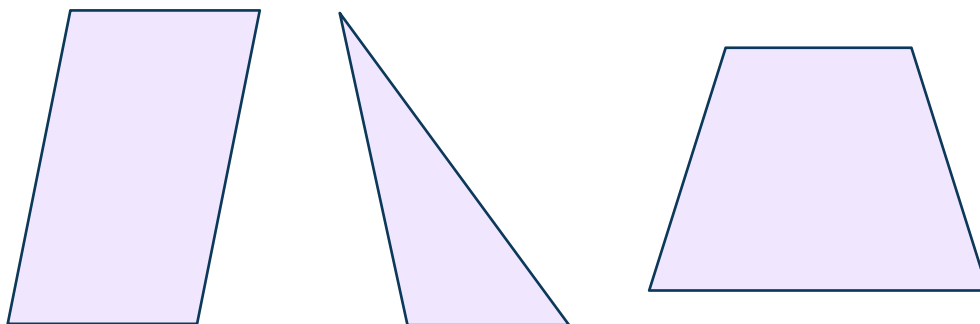


- A.  $37^\circ$
- B.  $53^\circ$
- C.  $90^\circ$
- D.  $45^\circ$

- 
- 18 Starting number: 87  
Rule: add 7 each time  
Which statement is true about the numbers in the pattern?

- A. The first number is odd and the rest are even.
- B. The numbers alternate between even and odd.
- C. All the numbers are odd.
- D. All the numbers are even.

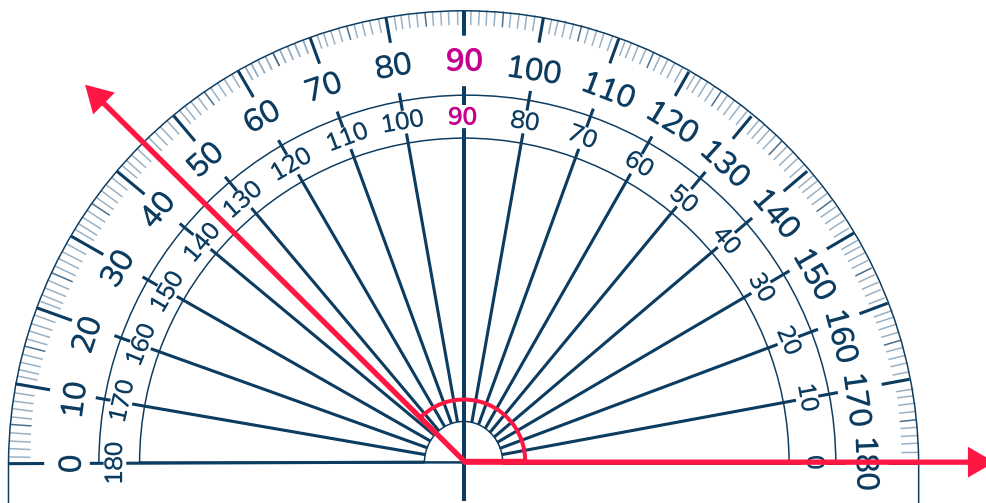
- 19 Joey sorts these figures into the same group.



Which statement best describes the figures in this group?

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

- 20 What is the measure of the angle?



- A.  $45^\circ$
- B.  $55^\circ$
- C.  $145^\circ$
- D.  $135^\circ$

21 Which number comparison is true?

- A. One thousand four hundred nineteen =  $(1 \times 1,000) + (4 \times 100) + (1 \times 10) + (1 \times 9)$
  - B.  $(2 \times 1,000) + (4 \times 10) + (3 \times 1) >$  three thousand eight hundred four
  - C.  $(4 \times 10,000) + (4 \times 1,000) + (9 \times 1) <$  forty four thousand and nine
  - D. Twenty thousand two hundred forty four  $> (2 \times 1,000) + (2 \times 100) + (4 \times 10) + (4 \times 1)$
- 

22 Solve  $48,716 - 39,024$ .

- A. 11,712
- B. 9,712
- C. 11,692
- D. 9,692



- 23 Which table shows the relationship between quarts and gallons.  
(1 gallon = 4 quarts)

A.

quarts	gallons
1	4
2	8
3	12

B.

quarts	gallons
1	2
2	3
3	4

C.

quarts	gallons
4	1
8	2
12	3

D.

quarts	gallons
6	1
7	2
8	3

- 24 Jana and Kaylor each ran at a track meet. Kaylor ran  $\frac{2}{3}$  miles. Jana ran 4 times as far as Kaylor. How many miles did Jana run?

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

B.  $2\frac{1}{3}$

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

D.  $4\frac{1}{3}$

- 
- 25 What is the value of  $5,093 \times 8$ ?

A. 41,544

B. 40,744

C. 22,269

D. 6,011

- 26 Which process shows a correct way to add the fractions below?

$$\frac{4}{100} + \frac{8}{10}$$

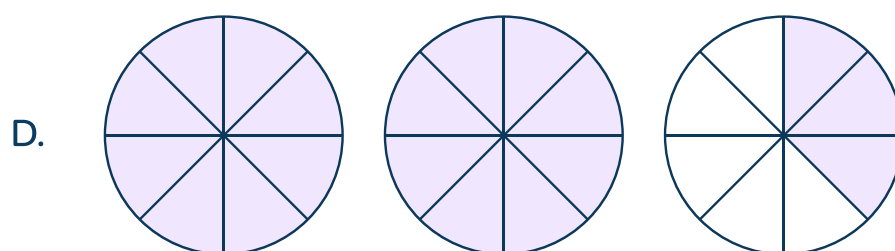
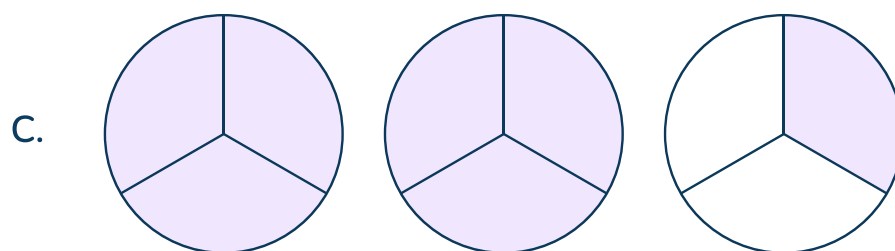
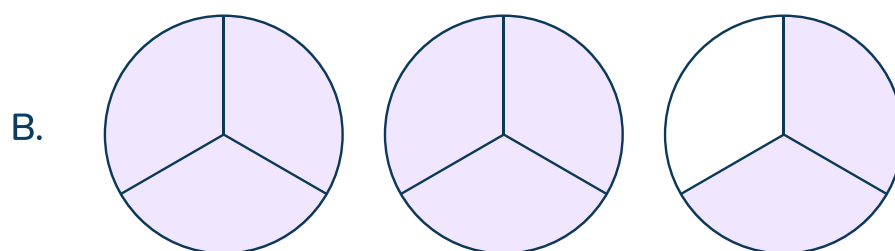
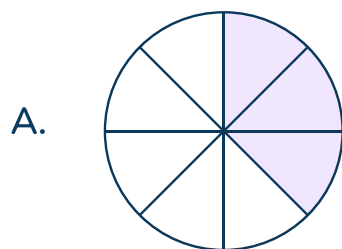
- A.  $\frac{4}{100} + \frac{8}{10} = \frac{4+8}{100+10} = \frac{12}{110}$
- B.  $\frac{4}{100} + \frac{8}{10} = \frac{4+8}{100} = \frac{12}{100}$
- C.  $\frac{4}{100} + \frac{80}{10} = \frac{4+80}{100+10} = \frac{84}{110}$
- D.  $\frac{4}{100} + \frac{80}{100} = \frac{4+80}{100} = \frac{84}{100}$
- 

- 27 What are the next 3 numbers in the pattern?

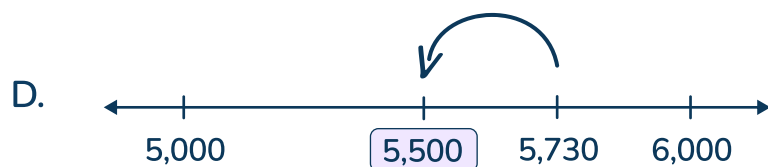
7, 12, 22, 37, 57, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

- A. 82, 112, 147
- B. 62, 67, 72
- C. 77, 97, 117
- D. 71, 96, 121

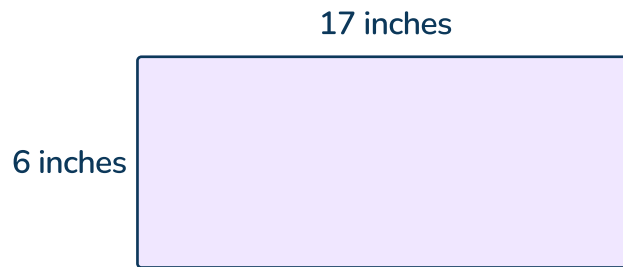
- 28 Choose the model that shows  $\frac{1}{3} \times 8$ .



- 29 Which shows 5,730 rounded to the nearest hundred on a number line?

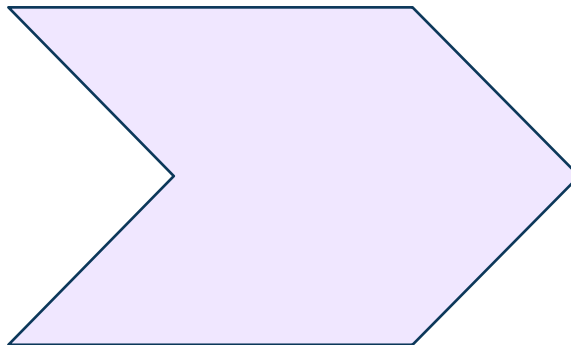


30 What is the area of the rectangle?



- A. 23 inches
  - B. 38 inches
  - C. 46 square inches
  - D. 102 square inches
- 

31 How many line segments make up the polygon?



- A. 10
- B. 3
- C. 9
- D. 6

32 Travis read for 20 minutes. Then he played his video game for 45 minutes, before he spent time eating lunch. If he started reading at 9:45 am and finished eating lunch at 11:25 am, how long did he spend eating lunch?

- A. 40 minutes
  - B. 25 minutes
  - C. 35 minutes
  - E. 20 minutes
- 

33 Which statements match an equation equal to 36? Select all that apply.

- A. 6 times as many as 6
- B. 4 times as many as 6
- C. 12 times as many as 2
- D. 2 times as many as 18

34 Andy's garden is 15 feet by 17 feet. If each plant needs 8 square feet of space, how many plants can Andy have in his garden?

- A. 2,040 plants
  - B. 31 plants
  - C. 263 plants
  - D. 32 plants
- 

35 Round 27,708 to the nearest thousand.

- A. 27,700
- B. 30,000
- C. 28,000
- D. 28,700

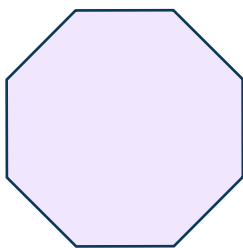


- 36 Kason has 7 cups of water. He uses  $1\frac{5}{6}$  cups to water his pet turtle. He uses  $2\frac{4}{6}$  cups to water his pet snake. How much water is left?

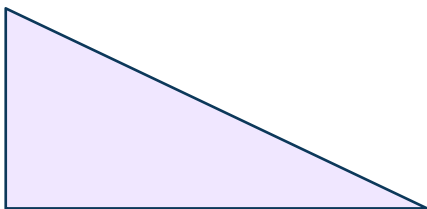
- A.  $1\frac{2}{3}$  cups  
B.  $1\frac{1}{3}$  cups  
C.  $2\frac{2}{3}$  cups  
D.  $2\frac{1}{2}$  cups
- 

- 37 Which shape does NOT have an obtuse angle?

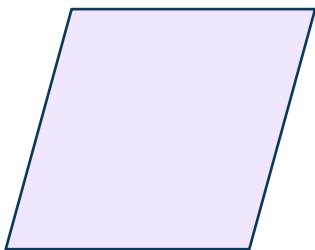
A.



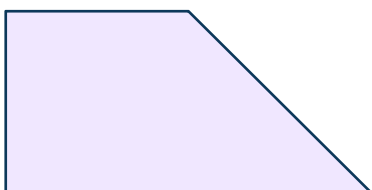
B.



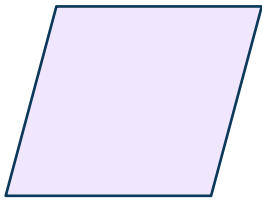
C.



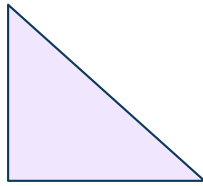
D.



38 Which figures have both parallel and perpendicular sides?



*M*



*N*



*O*

- A. Figure N
- B. Figure M & O
- C. Figure O
- D. None of the figures

---

39 Solve  $88,971 + 452,306$ .

- A. 541,277
- B. 540,277
- C. 531,077
- D. 521,377

- 40 Leah had 1 whole pizza. She ate  $\frac{2}{8}$  of the pizza on Monday,  $\frac{3}{8}$  of the pizza on Tuesday, and  $\frac{2}{8}$  of the pizza on Wednesday. What fraction of the pizza was left after Wednesday?

A.  $\frac{7}{8}$

B.  $\frac{17}{24}$

C.  $\frac{7}{24}$

D.  $\frac{1}{8}$

Standard: 4.NBT.6

DOK 3

Short Answer Response - 5 points

41 Noa used the following strategy to solve  $2,723 \div 7$ .

$$7 \times 100 = 700$$

$$\begin{array}{r} 2,723 \\ - 700 \\ \hline 2,023 \\ - 700 \\ \hline 1,323 \\ - 700 \\ \hline 623 \end{array}$$

$$7 \times 80 = 560$$

$$7 \times 9 = 63$$

$$30 + 80 + 9 =$$

- Explain Noa’s strategy, including identifying any mistakes.
- Finish solving with Noa’s strategy and show the final quotient.

Item	KEY	Rationale
41	5 points	<div>Student correctly explains the mistake Noa made and how she can fix it (30 should be 300 because subtracting by 700 was in groups of 100, not 10)</div> <div>Student correctly divides by adding the partial quotients of <math>300 + 80 + 9 = 389</math>.</div>
	2.5 points	Student correctly solves using Noa’s strategy OR correctly explains the mistake.
	0 points	Students will receive 0 points if they leave the response blank, or do not correctly explain the mistake AND do not correctly solve the equation using Noa’s strategy.

Standard: 4.OA.2, 4.OA.3

DOK 2

Short Answer Response - 5 points

- 42 Over spring break, Azriel read 48 pages of a book. Joseph read 5 times as many pages of the same book. Joseph read 6 times as many pages as Liv.

Write an expression to represent the number of pages Joseph read and an expression to represent the number of pages Liv read. Then, find the value of each expression.

Joseph	Liv
--------	-----

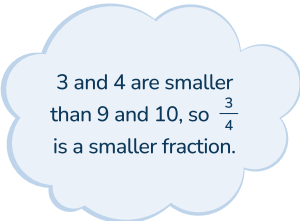
Item	KEY	Rationale
42	5 points	To receive 5 points, students need to write a correct expression for both Joseph and Liv, and they need to find the correct value of each one.  Joseph: $48 \times 5 = 240$ pages Liv: $240 \div 6 = 40$ pages
	2.5 points	Students will receive 2.5 points if they only write one correct expression or if they only evaluate one expression correctly.
	0 points	Students will receive 0 points if they leave the response blank, or if they do not write a correct expression or solve correctly.

Standard: 4.NF.2

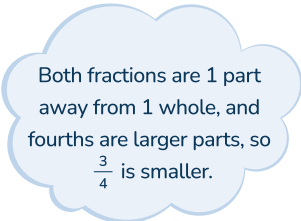
DOK 3

Short Answer Response - 5 points

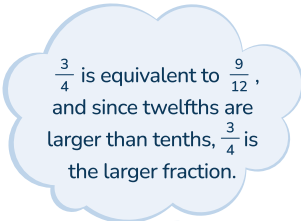
43 A class is comparing the fractions  $\frac{3}{4}$  and  $\frac{9}{10}$ . Below are 3 students' responses.



Tyler



Mimi



Jesse

Item	KEY	Rationale
43	5 points	<p>Student identifies and explains all the correct and incorrect parts...</p> <ul style="list-style-type: none"><li>• Tyler compared the numerator and denominator separately, which is incorrect. Even though he had the right answer, his reasoning was wrong.</li><li>• Mimi saw that both numerators were 1 away from a whole, so each fraction is only missing one part. Since fourths are larger, they will be farther away from 1 than tenths. Her answer and reasoning is correct.</li><li>• Tyler creates equivalent fractions to compare numerators. However, he is wrong when he says twelfths are larger, they are smaller, making 9/10 the bigger fraction.</li></ul>
	2.5 points	<p>Student explains most correct and incorrect parts (missing no more than 1 part) OR student makes 1 mistake.</p>
	0 points	<p>Students will receive 0 points if they leave the response blank, or do not identify most correct or incorrect parts OR make multiple mistakes.</p>

## Answer Key - Multiple Choice

Item number	Correct answer	Domain	Target	DOK	CCSS-MC
1	C	NF	H	DOK 1	4.NF.7
2	B	OA	A	DOK 2	4.OA.1, 4.OA.2
3	D	NBT	E	DOK 3	4.NBT.5
4	B	OA	B	DOK 1	4.OA.4
5	D	MD, NBT	E, I	DOK 2	4.MD.2, 4.NBT.5
6	A	G	L	DOK 1	4.G.3
7	A, C	NBT	D	DOK 1	4.NBT.1
8	C	OA	B	DOK 2	4.OA.4
9	B	NF	F	DOK 1	4.NF.2
10	D	OA, NBT	A, E	DOK 2	4.NBT.6, 4.OA.3*
11	A	MD	J	DOK 2	4.MD.4
12	C, D	NBT	D	DOK 1	4.NBT.3
13	D	NF	H	DOK 2	4.NF.6
14	B	OA	C	DOK 2	4.OA.5
15	C	NBT	E	DOK 3	4.NBT.4
16	D	NF	F	DOK 2	4.NF.1
17	B	MD	K	DOK 1	4.MD.7
18	B	OA	C	DOK 2	4.OA.5
19	D	G	L	DOK 2	4.G.2
20	D	MD	K	DOK 1	4.MD.6

# California State Test | Grade 4 | Answers

Item number	Correct answer	Domain	Target	DOK	CCSS-MC
21	A, D	NBT	D	DOK 2	4.NBT.1, 4.NBT.2*
22	D	NBT	E	DOK 1	4.NBT.4
23	C	MD	I	DOK 1	4.MD.1
24	C	NF	G	DOK 2	4.NF.4a, 4.NF.4b 4.NF.4c*
25	B	NBT	E	DOK 1	4.NBT.5
26	D	NF	H	DOK 2	4.NF.5
27	A	OA	C	DOK 2	4.OA.5
28	B	NF	G	DOK 1	4.NF.4
29	C	NBT	D	DOK 2	4.NBT.3
30	D	NBT, MD	E, I	DOK 1	4.MD.3, 4.NBT.5
31	D	G	L	DOK 1	4.G.1
32	C	MD	I	DOK 2	4.MD.2
33	A, D	OA	A	DOK 1	4.OA.1
34	B	MD	I	DOK 2	4.MD.2
35	C	NBT	D	DOK 1	4.NBT.3
36	D	NF	G	DOK 2	4.NF.3
37	B	G	L	DOK 1	4.G.2
38	C	G	L	DOK 2	4.G.2
39	A	NBT	E	DOK 1	4.NBT.4
40	D	NF	G	DOK 2	4.NF.3a, 4.NF.3b, 4.NF.3c, 4.NF.3d*



## ANSWERS SORTED BY CCSS STRAND

OA			
2	B	4.OA.1, 4.OA.2	DOK 2
4	B	4.OA.4	DOK 1
8	C	4.OA.4	DOK 2
10	D	4.NBT.6, 4.OA.3'	DOK 2
14	B	4.OA.5	DOK 2
18	B	4.OA.5	DOK 2
27	A	4.OA.5	DOK 2
33	A, D	4.OA.1	DOK 1
42	Short Answer Response	4.OA.2, 4.OA.3	DOK 2

## California State Test | Grade 4 | Answers

NBT			
3	D	4.NBT.5	DOK 2
7	A, C	4.NBT.1	DOK 1
12	C, D	4.NBT.3	DOK 1
15	C	4.NBT.4	DOK 3
21	A, D	4.NBT.1, 4.NBT.2	DOK 2
22	D	4.NBT.4	DOK 1
25	B	4.NBT.5	DOK 1
29	C	4.NBT.3	DOK 2
35	C	4.NBT.3	DOK 1
39	A	4.NBT.4	DOK 1
41	Short answer response	4.NBT.6	DOK 3

## California State Test | Grade 4 | Answers

NF			
1	C	4.NF.7	DOK 1
9	B	4.NF.2	DOK 1
13	D	4.NF.6	DOK 2
16	D	4.NF.1	DOK 2
24	C	4.NF.4.a, 4.NF.4.b 4.NF.4.c*	DOK 2
26	D	4.NF.5	DOK 2
28	B	4.NF.4	DOK 1
36	C	4.NF.3	DOK 2
40	A	4.NF.3a, 4.NF.3b, 4.NF.3c, 4.NF.3d*	DOK 2
43	Short Answer Response	4.NF.2	DOK 3

MD			
5	D	4.MD.2, 4.NBT.5	DOK 2
11	A	4.MD.4	DOK 2
17	B	4.MD.7	DOK 1
20	D	4.MD.6	DOK 1
23	C	4.MD.1	DOK 1
30	D	4.MD.3, 4.NBT.5	DOK 1
32	C	4.MD.2	DOK 2
34	B	4.MD.2, 4.MD.3, 4.NBT.5, 4.NBT.6	DOK 2




G			
6	A	4.G.3	DOK 1
19	C	4.G.1	DOK 2
31	D	4.G.1	DOK 1
37	B	4.G.2	DOK 1
38	C	4.G.2	DOK 2

## Do you have a group of students who need a boost in math?

Each student could receive a personalized lesson every week from our specialist one-on-one math tutors.

- ✓ Differentiated instruction for each student
- ✓ Aligned to your state's standard
- ✓ Scaffolded learning to close gaps

## Speak to us

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