



THIRD SPACE  
LEARNING

# 4th Grade Washington State Practice Math Test

Washington Practice Test  
Grade 4

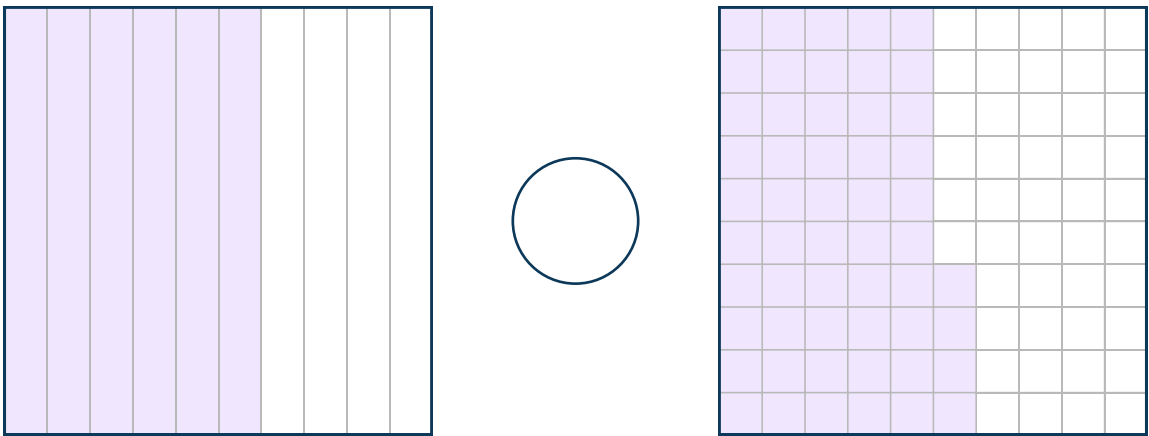
Grade 4

Questions

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

Date: ..... Score: .....

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



- A.  $0.54 > 0.6$
- B.  $0.06 < 0.54$
- C.  $0.6 > 0.54$
- D.  $54 < 6$

2 Natasha is creating greeting cards with her best friend. They made 4 times as many birthday cards as ‘get well soon’ cards. If there are 36 birthday cards, how many ‘get well soon’ cards are there?

- A. 144 ‘get well soon’ cards
- B. 9 ‘get well soon’ cards
- C. 32 ‘get well soon’ cards
- D. 40 ‘get well soon’ cards

- 3 Using the following rectangular array, Colin solves  $32 \times 21$ .

600	40
?	2

What missing number will complete Colin's array?

- A. 12
  - B. 300
  - C. 60
  - D. 30
- 

- 4 Which set of numbers are all multiples of 9?

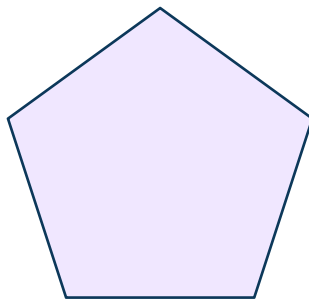
- A. 18, 32, 45, 54
- B. 1, 9, 18, 32
- C. 1, 3, 9
- D. 9, 18, 27, 36

- 5 Kasen volunteers at an animal shelter. They have 52 pounds of dog food. Kasen feeds the dogs in servings of ounces. How many ounces of dog food does the animal shelter have?

*(1 pound = 16 ounces)*

- A. 68 ounces
- B. 36 ounces
- C. 832 ounces
- D. 806 ounces

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



- A. 1
- B. 5
- C. 4
- D. 2

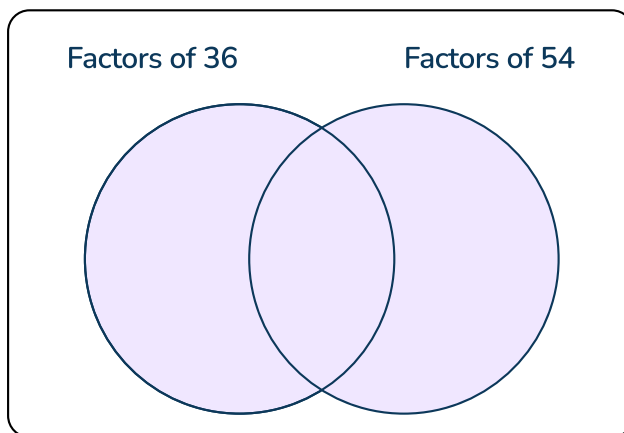


- 7 A class is comparing the digits' values in the numbers 157,042 and 13,425.

Which statements are true? Select all that apply.

- A. The digit 2 in 157,042 is ten times larger than in 13,425.
- B. The digit 4 in 13,425 is ten times larger than in 157,042.
- C. The digit 5 in 157,042 is one hundred times larger than in 13,425.
- D. The digit 4 in 13,425 is ten times smaller than in 157,042.
- E. The digit 5 in 157,042 is one hundred times smaller than in 13,425.

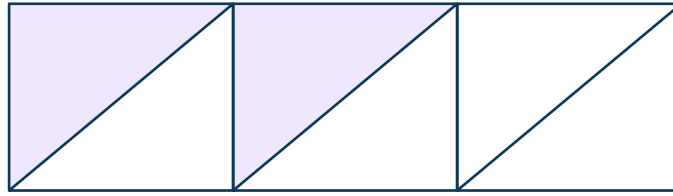
- 
- 8 Examine the Venn Diagram.



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

- A. 6
- B. 9
- C. 8
- D. 18

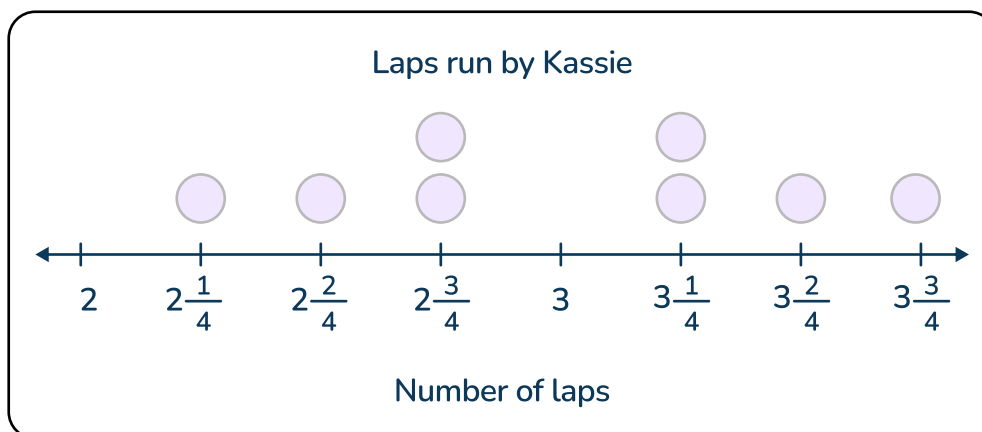
- 9 Diego had a rectangle with 6 equal parts. He shaded 2 of them. Which fractions does Diego's rectangle show are equal?



- 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 Tanya makes and sells homemade bath fizzles. She is putting them into boxes. She places 8 bath fizzles in each box. How many boxes does she need for 378 bath fizzles?

- A. 37
- B. 47
- C. 35
- D. 48

- 11 The line plot shows the number of laps that Kassie ran during PE.

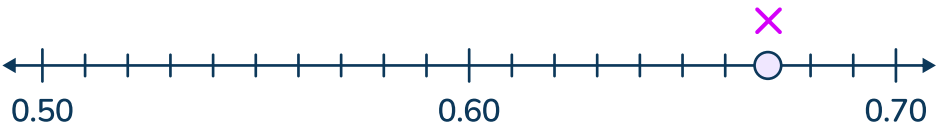


What is the difference between the lowest and the greatest number of laps Kassie ran during PE?

- A.  $1\frac{1}{2}$  laps
  - B. 1 laps
  - C.  $2\frac{1}{4}$  laps
  - D.  $2\frac{3}{4}$  laps
- 
- 12 Which of the following numbers round to 700 when rounded to the nearest hundred? Select all that apply.

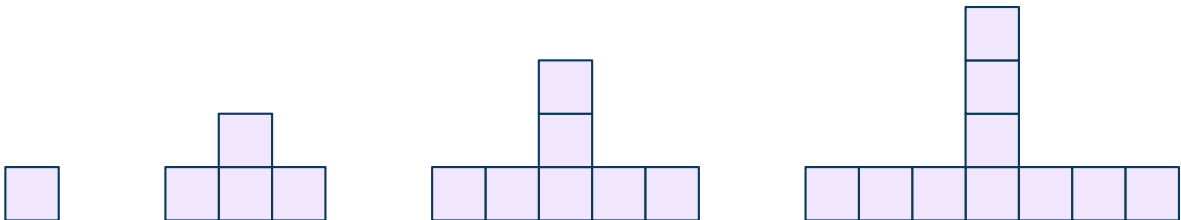
- A. 745
- B. 787
- C. 646
- D. 785
- E. 651

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



- A. 0.16
- B. 0.67
- C. 0.63
- D. 0.73

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. 19
- D. 21

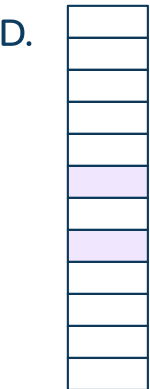
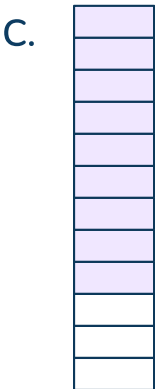
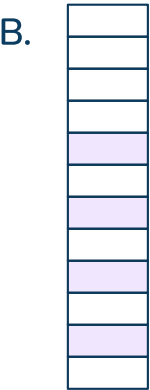
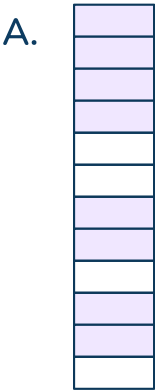
15 Raul subtracted with the standard algorithm.

	4,	1	7	2
–	2,	9	6	4
<hr/>				
	2,	8	0	8

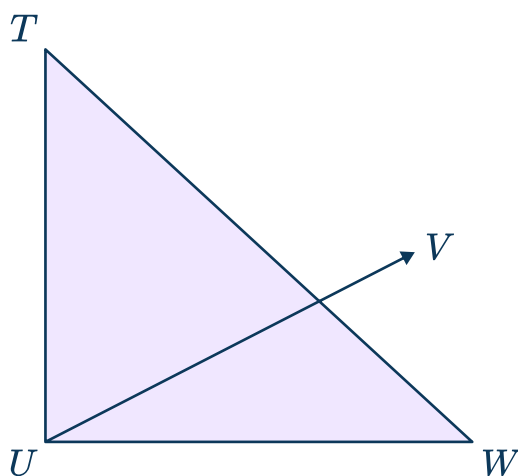
What mistake did Raul make?

- A. He did not make any mistakes.
- B. He did not line up the place values correctly.
- C. He did not carry the extra hundred to make 8 hundreds on top.
- D. He did not borrow 1 thousand to subtract 9 from 11 hundreds.

16 The shapes are divided into equal parts. Which shape is  $\frac{2}{3}$  shaded?



- 17 The right triangle below is divided into two parts. The measure of angle TUV is 77 degrees. What is the measure of angle VUW?



- A.  $13^\circ$
- B.  $24^\circ$
- C.  $90^\circ$
- D.  $55^\circ$

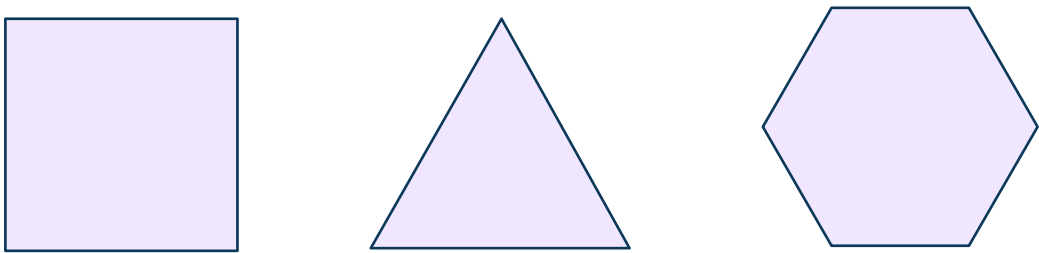
- 
- 18 Starting number: 56

Rule: add 11 each time

Which statement is true about the numbers in the pattern?

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

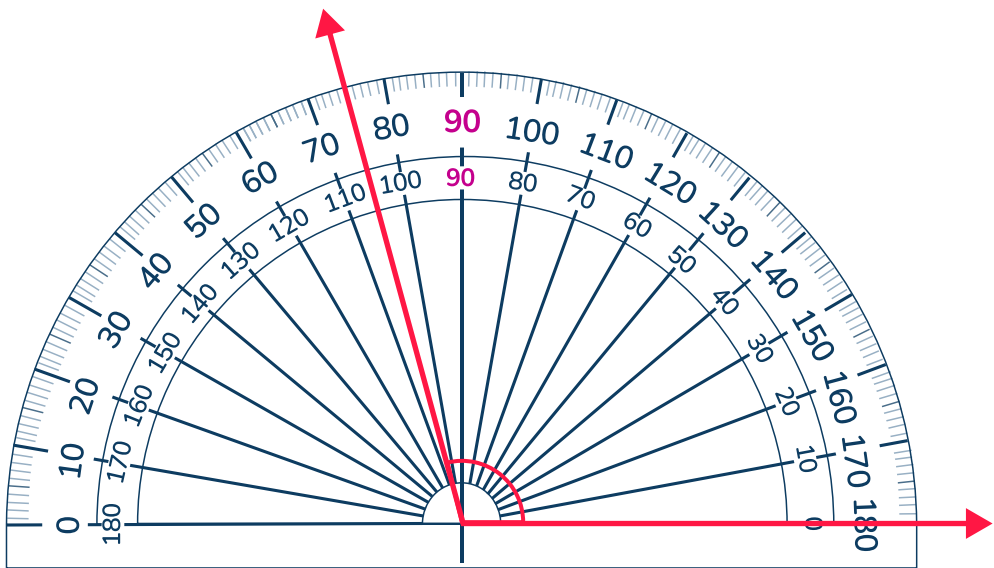
19 C.T. sorts these figures into the same group.



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.

20 What is the measure of the angle?



- A. 135°
- B. 60°
- C. 75°
- D. 105°

21 Which number comparison is true?

- A.  $(5 \times 1,000) + (3 \times 100) + (4 \times 10) >$  five thousand thirty four
- B. Four thousand six hundred two =  $(4 \times 1,000) + (6 \times 10) + (2 \times 1)$
- C.  $(7 \times 10,000) + (2 \times 1,000) + (1 \times 10) >$  seventy two thousand one hundred
- D. Sixteen thousand four hundred twelve  $< (1 \times 1,000) + (6 \times 100) + (4 \times 100) + (12 \times 10)$

---

22 Solve  $61,490 - 47,382$ .

- A. 14,112
- B. 26,108
- C. 14,108
- D. 15,118



23 Which table shows the relationship between cups and pints?  
(1 pint = 2 cups)

A.

cups	pints
1	4
2	8
3	12

B.

cups	pints
2	1
4	2
6	3

C.

cups	pints
1	3
2	4
3	5

D.

cups	pints
5	1
6	2
7	3

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

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

B. 2

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

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

- 
- 25 What is the value of  $4,452 \times 6$ ?

A. 26,702

B. 26,712

C. 24,402

D. 24,412

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

$$\frac{16}{100} + \frac{6}{10}$$

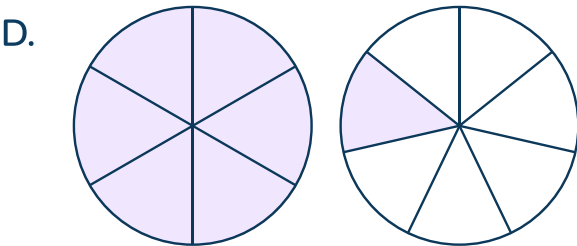
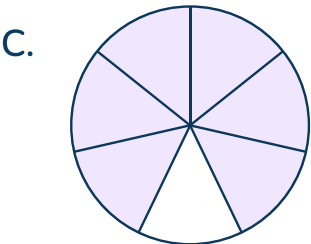
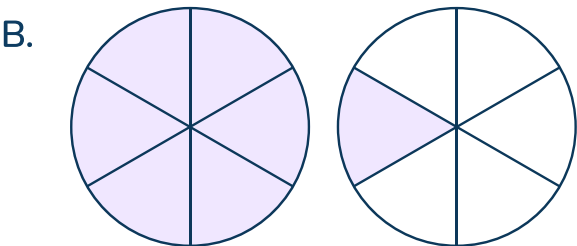
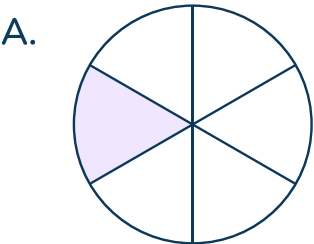
- A.  $\frac{16}{100} + \frac{4}{10} = \frac{16+4}{100+10} = \frac{20}{110}$
- B.  $\frac{16}{100} + \frac{4}{10} = \frac{16+4}{100} = \frac{20}{100}$
- C.  $\frac{16}{100} + \frac{60}{100} = \frac{16+60}{100} = \frac{76}{100}$
- D.  $\frac{16}{100} + \frac{60}{10} = \frac{16+60}{100+10} = \frac{76}{110}$
- 

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

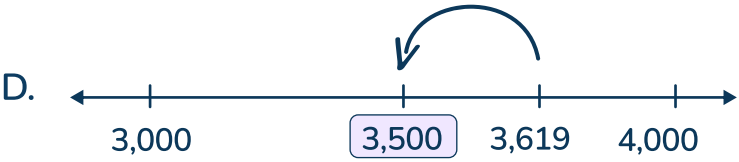
5, 8, 17, 29, 44, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

- A. 47, 50, 53
- B. 51, 73, 97
- C. 71, 96, 117
- D. 62, 83, 107

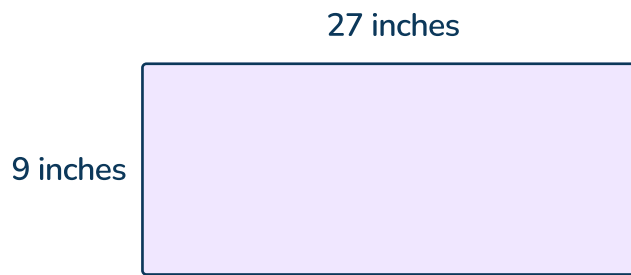
28 Choose the model that shows  $7 \times \frac{1}{6}$ .



29 Which shows 3,619 rounded to the nearest hundred on a number line?

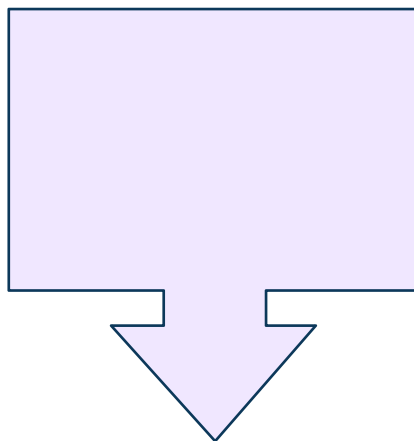


30 What is the area of the rectangle?



- A. 72 inches
  - B. 36 inches
  - C. 243 square inches
  - D. 119 square inches
- 

31 How many line segments make up the polygon?



- A. 11
- B. 7
- C. 8
- D. 5

32 Carlos read for 35 minutes. Then he played basketball for 42 minutes, before he spent time eating dinner. If he started reading at 4:53 pm and finished eating dinner at 6:45 pm, how long did he spend eating dinner?

- A. 40 minutes
  - B. 27 minutes
  - C. 20 minutes
  - D. 35 minutes
- 

33 Which statements match an equation equal to 18? Select all that apply.

- A. 4 times as many as 4
- B. 3 times as many as 6
- C. 2 times as many as 9
- D. 3 times as many as 18

34 Elvie's garden is 22 feet by 16 feet. If each plant needs 8 square feet of space, how many plants can Elvie have in her garden?

- A. 252 plants
- B. 32 plants
- C. 2,816 plants
- D. 44 plants

---

35 Round 63,739 to the nearest thousand.

- A. 63,700
- B. 64,000
- C. 63,000
- D. 64,800

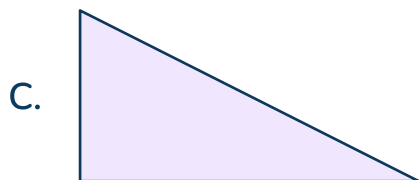
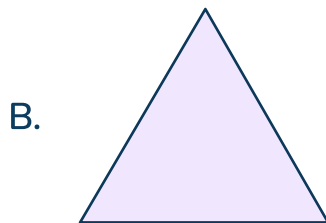
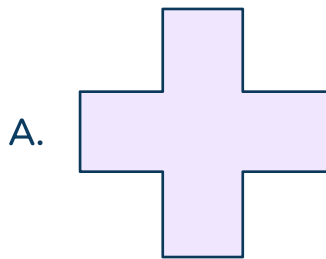


- 36 Cassandra has 7 yards of ribbon. She uses  $2\frac{7}{8}$  yards of ribbon on a craft project. She gave  $2\frac{4}{8}$  yards of ribbon to her best friend. How much ribbon is left?

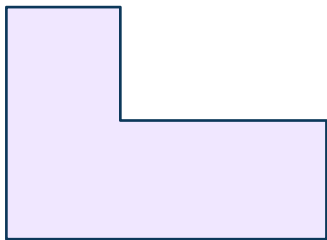
A.  $5\frac{1}{8}$  yards  
B.  $5\frac{7}{8}$  yards  
C.  $1\frac{1}{8}$  yards  
D.  $1\frac{5}{8}$  yards

---

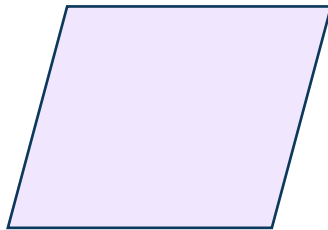
- 37 Which shape does NOT have an acute angle?



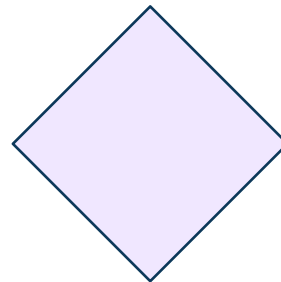
38 Which figures have both parallel and perpendicular sides?



*L*



*M*



*N*

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

---

39 Solve  $88,365 + 290,477$ .

- A. 174,127
- B. 378,842
- C. 378,732
- D. 117,412

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

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

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

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

D.  $\frac{6}{8}$

Standard: 4.NBT.6

DOK 3

Short Answer Response - 5 points

41 Penny used the following strategy to solve  $3,668 \div 7$ .

$7 \times 100 = 700$

3,	6	6	8
–	7	0	0
2,	9	6	8
–	7	0	0
2,	2	6	8
–	7	0	0
1,	5	6	8
–	7	0	0
	8	6	8
–	7	0	0
	1	6	8

$7 \times 12 = 84$

$7 \times 12 = 84$

$400 + 12 + 12 =$

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

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

DOK 2

Short Answer Response - 5 points

42 During the school fundraiser, Francis sold \$41 worth of items. Tiffany sold 4 times as much as Francis. Tiffany sold twice as much as Sasha.

Write an expression to represent the amount sold by Tiffany and an expression to represent the amount sold by Sasha. Then, find the value of each expression.

Tiffany	Sasha

Standard: 4.NF.2

DOK 3

Short Answer Response - 5 points

43 A class is comparing the fractions  $\frac{3}{4}$  and  $\frac{7}{8}$ . Below are 3 students' responses.

3 and 4 are smaller than 7 and 8, so  $\frac{3}{4}$  is a smaller fraction.



Layla

Both fractions are 1 part away from 1 whole, and fourths are larger parts, so  $\frac{3}{4}$  is smaller.



Jordan

$\frac{3}{4}$  is equivalent to  $\frac{9}{12}$ , and since twelfths are larger than eighths,  $\frac{3}{4}$  is the larger fraction.



Matthew

Critique each student's response - explaining which parts are correct and identify and fixing any mistakes.

---

---

---

---

---

---

---

---

---

---

## Answer Key - Multiple Choice

Item number	Correct answer	Standard(s)	DOK
1	C	4.NF.7	DOK 1
2	B	4.OA.1, 4.OA.2	DOK 2
3	D	4.NBT.5	DOK 2
4	D	4.OA.4	DOK 1
5	C	4.MD.2, 4.NBT.5	DOK 2
6	B	4.G.3	DOK 1
7	B	4.NBT.1	DOK 1
8	D	4.OA.4	DOK 2
9	B	4.NF.2	DOK 1
10	D	4.NBT.6, 4.OA.3*	DOK 2
11	A	4.MD.4	DOK 2
12	A, E	4.NBT.3	DOK 1
13	B	4.NF.6	DOK 2
14	B	4.OA.5	DOK 2
15	D	4.NBT.4	DOK 3
16	A	4.NF.1	DOK 2
17	A	4.MD.7	DOK 1
18	B	4.OA.5	DOK 2
19	C	4.G.2	DOK 2

# Washington State Practice Math Test | Grade 4 | Answers

Item number	Correct answer	Standard(s)	DOK
20	D	4.MD.6	DOK 1
21	A	4.NBT.1, 4.NBT.2*	DOK 2
22	C	4.NBT.4	DOK 1
23	B	4.MD.1	DOK 1
24	A	4.NF.4a, 4.NF.4b 4.NF.4c*	DOK 2
25	B	4.NBT.5	DOK 1
26	C	4.NF.5	DOK 2
27	D	4.OA.5	DOK 2
28	B	4.NF.4	DOK 1
29	C	4.NBT.3	DOK 2
30	C	4.MD.3, 4.NBT.5	DOK 1
31	A	4.G.1	DOK 1
32	D	4.MD.2	DOK 2
33	B, C	4.OA.1	DOK 1
34	D	4.MD.2	DOK 2
35	B	4.NBT.3	DOK 1
36	D	4.NF.3	DOK 2
37	A	4.G.2	DOK 1
38	C	4.G.2	DOK 2
39	B	4.NBT.4	DOK 1
40	A	4.NF.3a, 4.NF.3b, 4.NF.3c, 4.NF.3d*	DOK 2



## Washington State Practice Math Test | Grade 4 | Answers

Item	KEY	Rationale
41	5 points	<p>Student correctly explains the mistake Penny made AND how she can fix it (400 should be 500 because 700 was subtracted a total of 5 times.)</p> <p>Student correctly divides by adding the partial quotients of <math>500 + 12 + 12 = 524</math>.</p>
	2.5 points	Student correctly solves using Penny's strategy OR correctly explains the mistake.
	0 points	Student leaves the response blank, or, does not correctly explain the mistake AND does not correctly solve the equation using Penny's strategy.

Item	KEY	Rationale
42	5 points	<p>To receive 5 points, students need to write a correct expression for both Tiffany and Sasha, and they need to find the correct value of each one.</p> <p>Tiffany: <math>41 \times 4 = \\$164</math>  Sasha: <math>164 \div 2 = \\$82</math></p>
	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.

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>• Layla compared the numerator and denominator separately, which is incorrect. Even though she had the right answer, her reasoning was wrong.</li><li>• Jordan 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 eighths. His answer and reasoning is correct.</li><li>• Matthew creates equivalent fractions to compare numerators. However, he is wrong when he says twelfths are larger, they are smaller, making <math>\frac{7}{8}</math> 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>Student leaves the response blank or does not identify most correct or incorrect parts OR makes multiple mistakes.</p>

ANSWERS SORTED BY CCSS STRAND

OA			
Item number	Correct answer	Standard(s)	DOK
2	B	4.OA.1, 4.OA.2	DOK 2
4	D	4.OA.4	DOK 1
8	D	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	D	4.OA.5	DOK 2
33	B, C	4.OA.1	DOK 1
42	Short answer response	4.OA.2, 4.OA.3	DOK 2

Washington State Practice Math Test | Grade 4 | Answers

NBT			
Item number	Correct answer	Standard(s)	DOK
3	D	4.NBT.5	DOK 2
7	B	4.NBT.1	DOK 1
12	A, E	4.NBT.3	DOK 1
15	D	4.NBT.4	DOK 3
21	A	4.NBT.1, 4.NBT.2	DOK 2
22	C	4.NBT.4	DOK 1
25	B	4.NBT.5	DOK 1
29	C	4.NBT.3	DOK 2
35	B	4.NBT.3	DOK 1
39	B	4.NBT.4	DOK 1
41	Short answer response	4.NBT.6	DOK 3

Washington State Practice Math Test | Grade 4 | Answers

NF			
Item number	Correct answer	Standard(s)	DOK
1	C	4.NF.7	DOK 1
9	B	4.NF.2	DOK 1
13	B	4.NF.6	DOK 2
16	A	4.NF.1	DOK 2
24	A	4.NF.4.a, 4.NF.4.b 4.NF.4.c*	DOK 2
26	C	4.NF.5	DOK 2
28	B	4.NF.4	DOK 1
36	D	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

Washington State Practice Math Test | Grade 4 | Answers

MD			
Item number	Correct answer	Standard(s)	DOK
5	C	4.MD.2, 4.NBT.5	DOK 2
11	A	4.MD.4	DOK 2
17	A	4.MD.7	DOK 1
20	D	4.MD.6	DOK 1
23	B	4.MD.1	DOK 1
30	C	4.MD.3, 4.NBT.5	DOK 1
32	D	4.MD.2	DOK 2
34	D	4.MD.2, 4.MD.3, 4.NBT.5, 4.NBT.6	DOK 2




G			
Item number	Correct answer	Standard(s)	DOK
6	B	4.G.3	DOK 1
19	C	4.G.1	DOK 2
31	A	4.G.1	DOK 1
37	A	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

-  [thirdspacelearning.com/us/](https://thirdspacelearning.com/us/)
-  (929) 298 - 4593
-  [hello@thirdspacelearning.com](mailto:hello@thirdspacelearning.com)



**THIRD SPACE**  
LEARNING