



**THIRD SPACE
LEARNING**

4th Grade Pennsylvania State Test

State Test Grade 4

Grade 4

Questions

Name:

Class:

Date:

Score:

No Calculator For Questions 1 - 6



1 Which two numbers have a sum of 43,245? Select the two correct answers.

A. 15,236

B. 58,481

C. 28,009

D. 31,301

E. 12,944

2 Solve $5\frac{5}{8} - 2\frac{7}{8}$.

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

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

C. 3

D. $2\frac{1}{8}$

- 3 Nathan is planting a garden with his grandmother. They planted 4 times as many cucumber plants as tomato plants. If there are 16 cucumber plants, how many tomato plants are there?

A. 64 tomato plants
B. 4 tomato plants
C. 20 tomato plants
D. 12 tomato plants

- 4 Solve $62,503 - 19,745$.

A. 42,758
B. 57,242
C. 42,768
D. 52,768

- 5 At an animal shelter, each dog needs a quart of water. Nigel pours out 16 gallons of water. How many dogs can Nigel give water to?

A. 16
B. 4
C. 12
D. 64

6 What is the value of $4,109 \times 7$?

- A. 28,763
- B. 29,123
- C. 28,079
- D. 29,763

Calculator Can Be Used For Questions 7 - 45



7 A class is comparing the digits' values in the numbers 431,709 and 47,391.

Which statement is true?

- A. The digit 9 in 431,709 is nine times larger than in 47,391.
- B. The digit 1 in 47,391 is one thousand times smaller than in 431,709.
- C. The digit 7 in 431,709 is one hundred times smaller than in 47,391.
- D. The digit 4 in 47,391 is ten times larger than in 431,709.

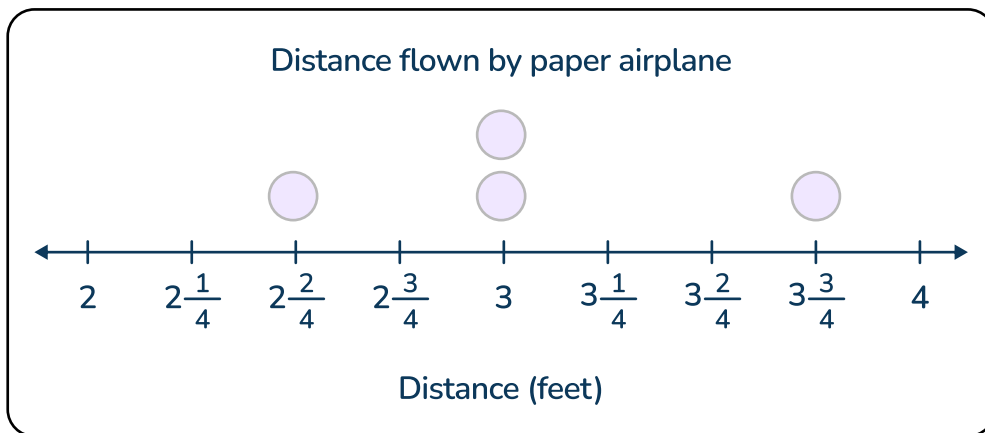
8 Which number is prime?

- A. 27
- B. 33
- C. 37
- D. 51

- 9 Gabby and Rashad are reading the same book. Gabby has read $\frac{2}{3}$ of the book. Rashad has read $\frac{2}{5}$ of the book. Who has read more and why?
- A. Gabby, because each fraction has 2 parts, but thirds of the book are larger than fifths.
 - B. Rashad, because fifths are always larger than thirds.
 - C. Gabby, because $\frac{2}{3}$ is close to $\frac{1}{2}$ and $\frac{2}{5}$ is close to 0.
 - D. Rashad, because both fractions are close to $\frac{1}{2}$, but $\frac{2}{5}$ is a little more.
-

- 10 Tish has 11 apple trees. Each apple tree has 45 apples. She places the apples into bags of 8 to sell. How many bags of apples will Tish have to sell?
- A. 15 bags
 - B. 61 bags
 - C. 7 bags
 - D. 62 bags

- 11 The line plot shows the distances that Alex threw his paper airplane during a science experiment.



What is the difference between the shortest and longest distance Alex threw his paper airplane last week?

- A. $1\frac{1}{4}$ feet
 - B. 1 foot
 - C. $6\frac{1}{4}$ feet
 - D. 2 feet
-
- 12 Which of the following numbers round to 9,000 when rounded to the nearest hundred? Select all that apply.

- A. 8,945
- B. 8,987
- C. 8,886
- D. 9,026
- E. 9,051

13 Which equation is true?

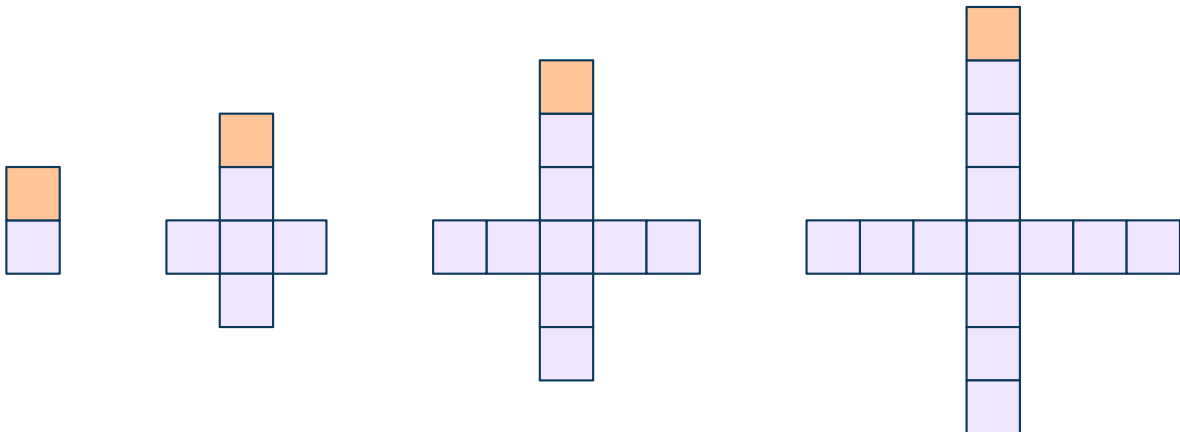
A. $\frac{3}{7} = \frac{9}{21}$

B. $\frac{3}{4} = \frac{7}{7}$

C. $\frac{5}{10} = \frac{2}{5}$

D. $\frac{1}{9} = \frac{3}{18}$

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



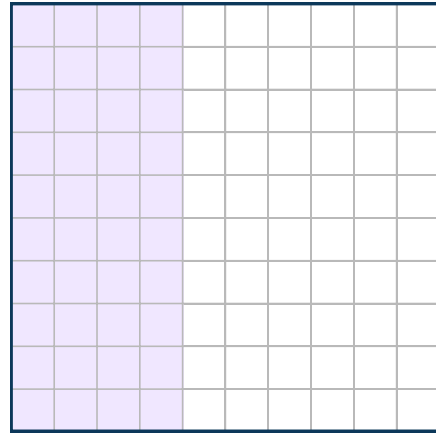
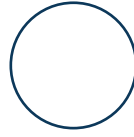
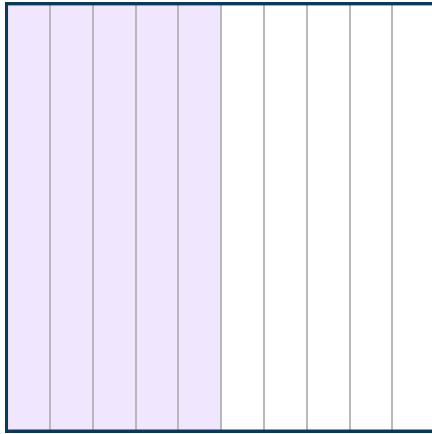
A. 18

B. 14

C. 22

D. 19

15



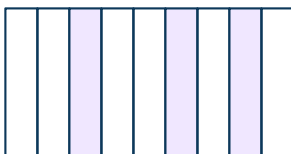
Which statement correctly compares the two decimals shown above?

- A. $0.50 < 0.40$
- B. $0.05 > 0.4$
- C. $0.5 < 0.04$
- D. $0.5 > 0.40$

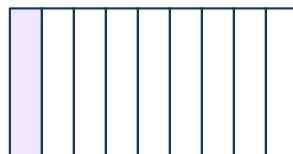
16

Adler paints $\frac{1}{3}$ of a piece of paper purple. Which model shows Adler's piece of paper?

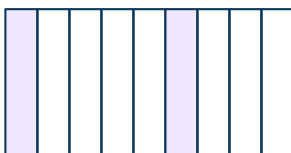
A.



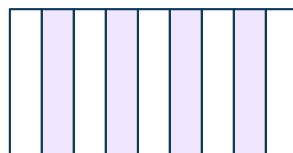
B.



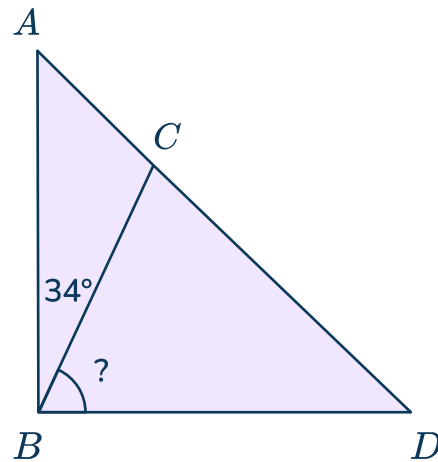
C.



D.



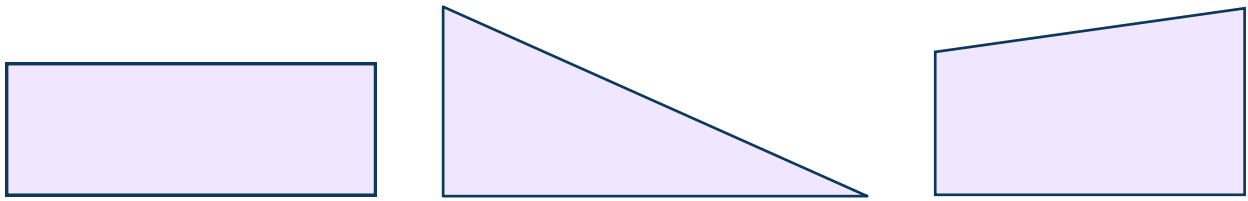
- 17 The right triangle below is divided into two parts. The measure of angle ABC is 34 degrees. What is the measure of angle CBD?



- A. 34°
B. 56°
C. 90°
D. 45°
-
- 18 A movie theater has 342 seats. Each row in the theater has 9 seats. The theater will show 6 movies this weekend. If the theater is full for each movie, how many people will be in the movie theater this weekend? Choose the expression that calculates the solution.

- A. $342 \div 6$
B. $342 \div 9$
C. 342×6
D. 342×9

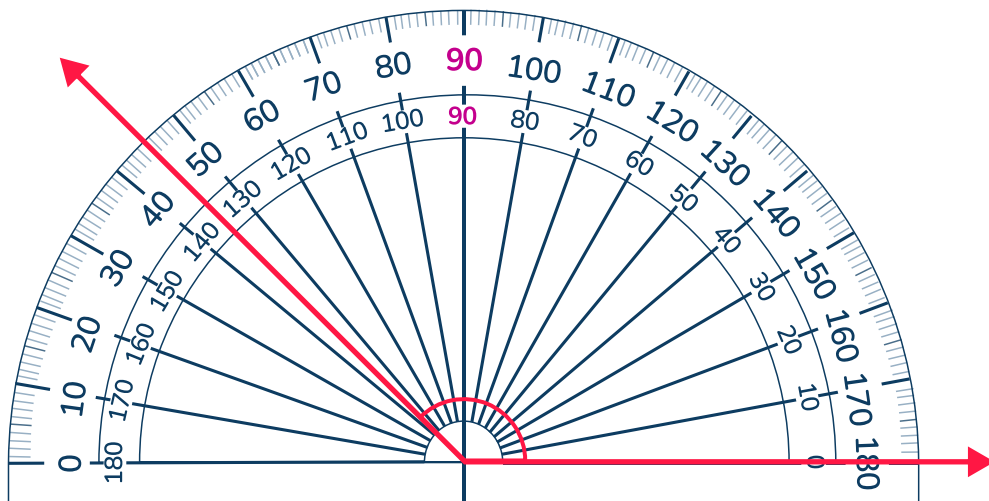
- 19 Marcus sorts these figures into the same group.



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 right angle.
- C. Each figure has at least one acute angle.
- D. Each figure has at least two pairs of perpendicular sides.

- 20 What is the measure of the angle?



- A. 45°
- B. 145°
- C. 35°
- D. 135°

21 Which number comparison is true?

- A. Three thousand five hundred seven = $(3 \times 1,000) + (5 \times 100) + (7 \times 10)$
 - B. $(9 \times 10,000) + (3 \times 10) + (5 \times 1) >$ Ninety three thousand
 - C. $(2 \times 100,000) + (7 \times 1,000) + (2 \times 10) <$ Twenty seven thousand fifteen
 - D. Sixteen thousand four hundred seven $< (1 \times 10,000) + (6 \times 1,000) + (4 \times 100) + (7 \times 10)$
-

22 A store sold \$270 worth of sandwiches on Monday and \$132 worth of sandwiches on Tuesday. If each sandwich costs \$6, how many sandwiches were sold on Monday and Tuesday?

- A. 138
 - B. 67
 - C. 23
 - D. 2,412
-

23 Which amount is equal to 3 kilometers?

- A. 300 liters
- B. 3,000 millimeters
- C. 3,000 meters
- D. 30,000 centimeters

- 24 Fatima and Stephanie each ran at a track meet. Fatima ran $\frac{1}{4}$ of a mile. Stephanie ran 5 times as far as Fatima. How many miles did Stephanie run?

A. $1\frac{1}{4}$ miles
B. $5\frac{1}{4}$ miles
C. $\frac{4}{5}$ of a mile
D. $\frac{1}{20}$ of a mile

- 25 The population of Scranton, in expanded form, is $500,000 + 60,000 + 7,000 + 60$. Which number is equal to the population of Scranton?


A. 506,760
B. 567,600
C. 567,060
D. 506,706

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

$$\frac{6}{100} + \frac{5}{10}$$

A. $\frac{6}{100} + \frac{5}{10} = \frac{11}{110}$
B. $\frac{6}{100} + \frac{5}{10} = \frac{6}{100} + \frac{5}{100} = \frac{11}{100}$
C. $\frac{6}{100} + \frac{5}{10} = \frac{6}{100} + \frac{50}{100} = \frac{56}{100}$
D. $\frac{6}{100} + \frac{5}{10} = \frac{6}{1000} + \frac{50}{1000} = \frac{66}{1000}$

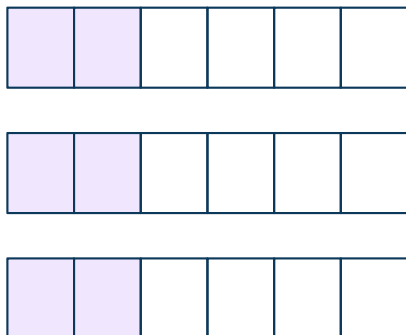
- 27 The table's function is $3p - 1 = n$.

p	n
3	8
5	14
	17

What is the missing value for p ?

- A. 8
- B. 6
- C. 7
- D. 50

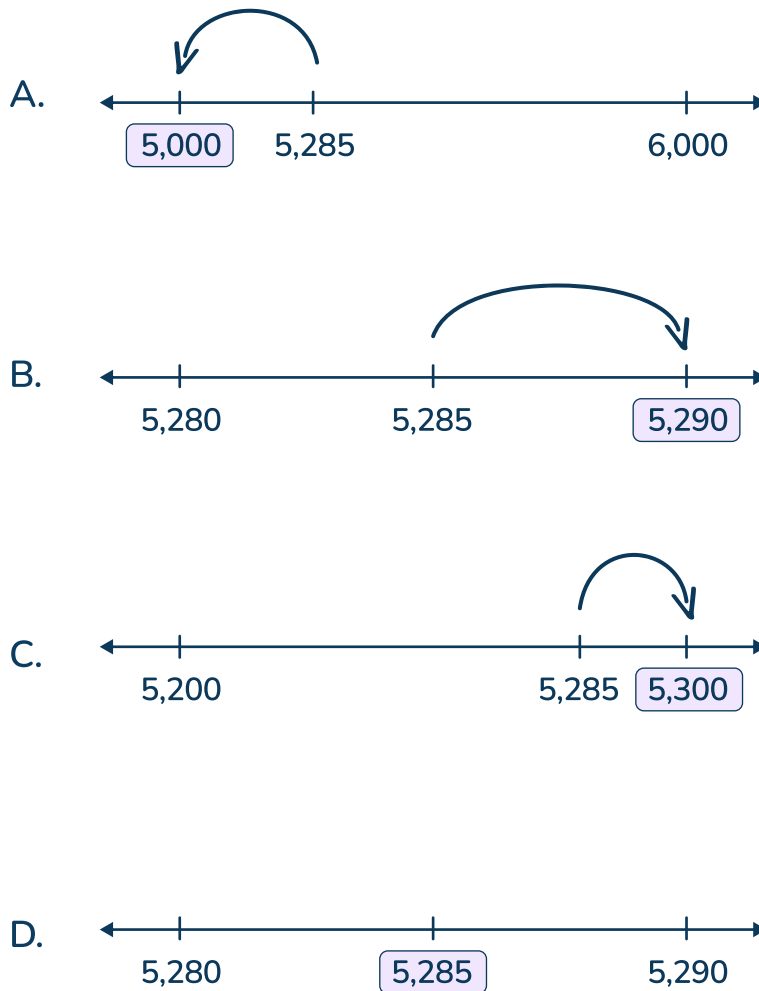
28



Which expression is shown by the model?

- A. $6 \times \frac{2}{6}$
- B. $3 \times \frac{2}{4}$
- C. $6 \times \frac{1}{3}$
- D. $3 \times \frac{2}{6}$

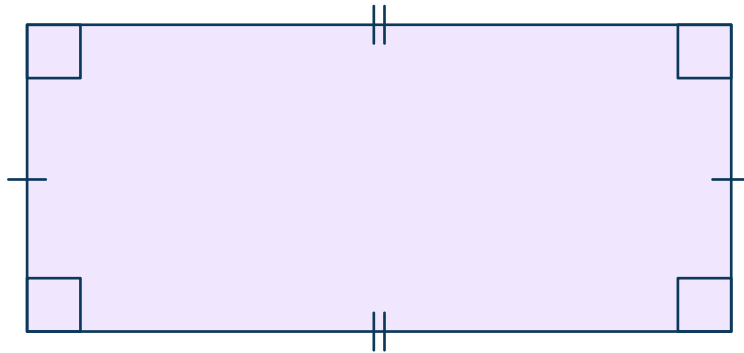
- 29 Which shows 5,285 rounded to the nearest hundred on a number line?



- 30 Which expression is equal to $1\frac{3}{4}$?

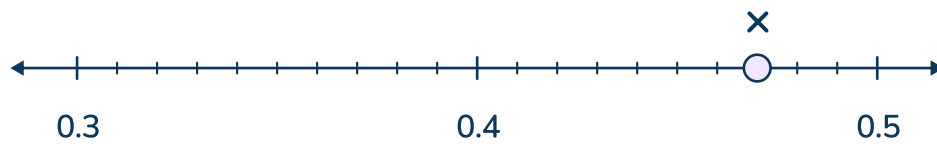
- A. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$
- B. $\frac{1}{1} + \frac{1}{1} + \frac{1}{1} + \frac{1}{1}$
- C. $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$
- D. $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$

- 31 Which is not a name for this shape?



- A. Square
 - B. Parallelogram
 - C. Trapezoid
 - D. Quadrilateral
-
- 32 Oscar read for 1 hour. Then he played his video game for 45 minutes, before he spent time eating lunch. If he started reading at 10:50 am and finished eating lunch at 1:05 pm, how long did he spend eating lunch?
- A. 15 minutes
 - B. 30 minutes
 - C. 25 minutes
 - D. 20 minutes

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



- A. $1\frac{1}{10}$
 B. $\frac{2}{10}$
 C. $\frac{47}{100}$
 D. $\frac{7}{100}$
-
- 34 Khaled's book has 476 pages. He plans to read it in 4 weeks by reading the same number of pages each week. Which shows the closest estimate of the pages Khaled needs to read each week?

- A. A little less than 120 pages, because $4 \times 12 = 48$.
 B. A little more than 120 pages, because $4 \times 12 = 48$.
 C. A little less than 100 pages, because $5 \times 10 = 50$.
 D. A little more than 100 pages, because $5 \times 10 = 50$.
-

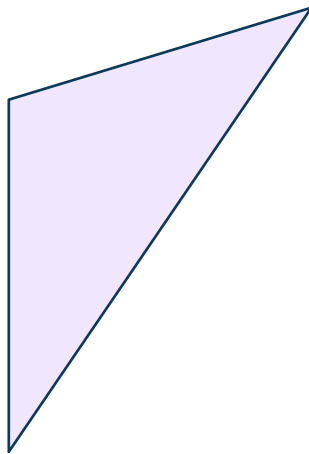
- 35 Round 345,359 to the nearest hundred thousand.

- A. 300,000
 B. 345,000
 C. 350,000
 D. 400,000

- 36 Gina has 8 cups of water. She uses $1\frac{3}{4}$ cups to water her indoor plants. She uses $3\frac{3}{4}$ cups to water her outdoor plants. How much water is left?

- A. $4\frac{1}{2}$ cups
 - B. $5\frac{1}{2}$ cups
 - C. $3\frac{1}{2}$ cups
 - D. $2\frac{1}{2}$ cups
-

- 37 What is the name of this shape?



- A. Obtuse triangle
- B. Equilateral triangle
- C. Right triangle
- D. Acute triangle

- 38 How many lines of symmetry does the rectangle below have?



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

- 39 Which list has three factors of 28?

- A. 2, 14, 28
 - B. 28, 56, 84
 - C. 2, 3, 14
 - D. 26, 2, 1
-

- 40 Greta had 1 whole melon. She ate $\frac{1}{12}$ of the melon on Monday, $\frac{3}{12}$ of the melon on Tuesday, and $\frac{5}{12}$ of the melon on Wednesday. What fraction of the melon was left after Wednesday?

- A. $\frac{9}{12}$
- B. $\frac{3}{12}$
- C. $\frac{1}{12}$
- D. $\frac{8}{12}$

41 Which statement is equal to 48?

- A. 6 times as many as 7
 - B. 8 times as many as 5
 - C. 12 times as many as 4
 - D. 2 times as many as 46
-

42 Which symbol makes the number sentence true?

$$4 = 12 \square 3$$

- A. =
 - B. \div
 - C. -
 - D. >
-

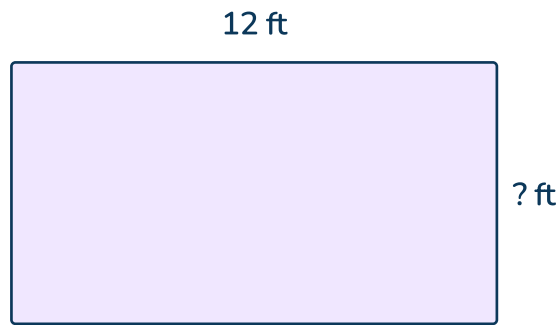
43 Starting number: 12

Rule: add 15 each time

Which statement is true about the numbers in the pattern?

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

- 44 The perimeter of the rectangle is 36. What is the missing side length?



- A. 12 ft
- B. 3 ft
- C. 6 ft
- D. 8 ft

Open Ended Question

- 45 Over winter break, Kadijah read 52 pages of a book. Oscar read 6 times as many pages of the same book. Jay read $\frac{1}{3}$ of the pages Oscar read.
- A. Without solving, write an expression to represent the number of pages Oscar read compared to Kadijah, using a letter for the unknown(s).
 - B. Without solving, write an expression to represent the number of pages Jay read compared to Oscar, using a letter for the unknown(s).
 - C. How many more pages this Oscar read than Jay? Show your work.

Pennsylvania State Test | Grade 4 | Questions

Item	KEY	Rationale
45	5 points	<p>To receive 5 points, students need to write correct expressions for both Oscar and Jay, solve each and find the difference.</p> <p>a) Oscar: $52 \times 6 = a$ b) Jay: $a \times \frac{1}{3} = b$ c) $a = 312$ pages $b = 104$ pages $312 - 104 = 208$ pages</p>
	3.5 point	Students will receive 3.5 points if they only write one correct expression OR if they only make one calculator mistake.
	2 points	Students will receive 2 points if they write one expression correctly OR make one calculator error.
	0 points	Students will receive 0 points if they leave the response blank, or if they do not write a correct expression OR make multiple calculation errors.

Answer Key - Multiple Choice

Item number	Correct answer	Standard(s)	DOK
1	A, C	M04.A-T.2.1.1	DOK 1
2	B	M04.A-F.2.1.3	DOK 1
3	B	M04.B-O.1.1.1	DOK 2
4	A	M04.A-T.2.1.1	DOK 1
5	D	M04.D-M.1.1.1	DOK 2
6	A	M04.A-T.2.1.2	DOK 1
7	B	M04.A-T.1.1.1	DOK 1
8	C	M04.B-O.2.1.1	DOK 1
9	A	M04.A-F.1.1.2	DOK 2
10	B	M04.B-O.1.1.3	DOK 2
11	A	M04.D-M.2.1.2	DOK 2
12	B, D	M04.A-T.1.1.4	DOK 1
13	A	M04.A-F.1.1.1	DOK 1
14	C	M04.B-O.3.1.1	DOK 2
15	D	M04.A-F.3.1.3	DOK 1
16	A	M04.A-F.1.1.1	DOK 2
17	B	M04.D-M.3.1.2	DOK 1

Pennsylvania State Test | Grade 4 | Answers

Item number	Correct answer	Standard(s)	DOK
18	C	M04.A-T.2.1.3	DOK 2
19	B	M04.C-G.1.1.1	DOK 2
20	D	M04.D-M.3.1.1	DOK 1
21	D	M04.A-T.1.1.2, M04.A-T.1.1.3	DOK 2
22	B	M04.A-T.2.1.1, M04.A-T.2.1.3	DOK 2
23	C	M04.D-M.1.1.1	DOK 1
24	A	M04.A-F.2.1.7	DOK 2
25	C	M04.A-T.1.1.2	DOK 1
26	C	M04.A-F.3.1.1	DOK 1
27	B	M04.B-O.3.1.2	DOK 2
28	D	M04.A-F.2.1.6	DOK 2
29	C	M04.A-T.1.1.4	DOK 2
30	A	M04.A-F.2.1.2	DOK 1
31	A	M04.C-G.1.1.2	DOK 1
32	B	M04.D-M.1.1.2	DOK 2
33	C	M04.A-F.3.1.2	DOK 2
34	A	M04.A-T.2.1.4	DOK 2
35	A	M04.A-T.1.1.4	DOK 1
36	D	M04.A-F.2.1.3, M04.A-F.2.1.4	DOK 2

Pennsylvania State Test | Grade 4 | Answers

Item number	Correct answer	Standard(s)	DOK
37	A	M04.C-G.1.1.2	DOK 1
38	D	M04.C-G.1.1.3	DOK 1
39	A	M04.B-O.2.1.1	DOK 1
40	B	M04.A-F.2.1.4	DOK 2
41	C	M04.B-O.1.1.1	DOK 2
42	B	M04.B-O.1.1.4	DOK 2
43	D	M04.B-O.3.1.1	DOK 2
44	C	M04.D-M.1.1.3	DOK 2
45	Answer shown after open-ended response question	M04.B-O.1.1.2, M04.B-O.1.1.3, M04.A-F.2.1.7	DOK 2

ANSWERS SORTED BY STANDARD

CC.2.1.4.B.1			
7	B	M04.A-T.1.1.1	DOK 1
12	B, D	M04.A-T.1.1.4	DOK 1
21	D	M04.A-T.1.1.2, M04.A-T.1.1.3	DOK 2
25	C	M04.A-T.1.1.2	DOK 1
29	C	M04.A-T.1.1.4	DOK 2
35	A	M04.A-T.1.1.4	DOK 1

CC.2.1.4.B.2			
1	A, C	M04.A-T.2.1.1	DOK 1
4	A	M04.A-T.2.1.1	DOK 1
6	A	M04.A-T.2.1.2	DOK 1
18	C	M04.A-T.2.1.3	DOK 2
22	B	M04.A-T.2.1.1, M04.A-T.2.1.3	DOK 2
34	A	M04.A-T.2.1.4	DOK 2

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CC.2.1.4.C.1			
9	A	M04.A-F.1.1.2	DOK 2
13	A	M04.A-F.1.1.1	DOK 1
16	A	M04.A-F.1.1.1	DOK 2

CC.2.1.4.C.2			
2	B	M04.A-F.2.1.3	DOK 1
24	A	M04.A-F.2.1.7	DOK 2
28	D	M04.A-F.2.1.6	DOK 2
30	A	M04.A-F.2.1.2	DOK 1
36	D	M04.A-F.2.1.3, M04.A-F.2.1.4	DOK 2
40	B	M04.A-F.2.1.4	DOK 2

CC.2.1.4.C.3			
15	D	M04.A-F.3.1.3	DOK 1
26	C	M04.A-F.3.1.1	DOK 1
33	C	M04.A-F.3.1.2	DOK 2

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CC.2.2.4.A.1			
3	B	M04.B-O.1.1.2	DOK 2
10	B	M04.B-O.1.1.3	DOK 2
41	C	M04.B-O.1.1.1	DOK 2
42	B	M04.B-O.1.1.4	DOK 2
45	Answer shown after open-ended response question	M04.B-O.1.1.2, M04.B-O.1.1.3, M04.A-F.2.1.7	DOK 2

CC.2.2.4.A.2			
8	C	M04.B-O.2.1.1	DOK 1
39	A	M04.B-O.2.1.1	DOK 1

CC.2.2.4.A.4			
14	C	M04.B-O.3.1.1	DOK 2
27	B	M04.B-O.3.1.2	DOK 2
43	D	M04.B-O.3.1.1	DOK 2

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CC.2.3.4.A.1, CC.2.3.4.A.2, CC.2.3.4.A.3			
19	B	M04.C-G.1.1.1	DOK 2
31	A	M04.C-G.1.1.2	DOK 1
37	A	M04.C-G.1.1.2	DOK 1
38	D	M04.C-G.1.1.3	DOK 1

CC.2.4.4.A.1			
5	D	M04.D-M.1.1.1	DOK 2
23	C	M04.D-M.1.1.1	DOK 1
32	B	M04.D-M.1.1.2	DOK 2
44	C	M04.D-M.1.1.3	DOK 2

CC.2.4.4.A.4			
11	A	M04.D-M.2.1.2	DOK 2




CC.2.4.4.A.4			
17	B	M04.D-M.3.1.2	DOK 1
20	D	M04.D-M.3.1.1	DOK 1

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

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-  +1 929-298-4593
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