

2021-2022



Grade 3 - Item Type Sampler
Mathematics

Directions:

On the following pages of your booklet are questions for the Grade 3 *Nebraska Student-Centered Assessment System Mathematics (NSCAS-M)* Item Type Sampler.

Read these directions carefully before beginning this item type sampler.

This item type sampler will include several different types of questions. Multiple choice questions will ask you to select an answer from among four choices. Multiple select questions will ask you to select multiple correct answers from among five or more answer choices. For some questions, there may be two parts, Part A and Part B, where each part has a multiple choice or multiple select question. These questions will be found in your item type sampler.

For all questions:

- Read each question carefully and choose the best answer.
- You may use scratch paper to solve the problems.
- You may not use a calculator on this sampler.
- Be sure to answer ALL the questions.

When you come to the word STOP, you have finished the Grade 3 NSCAS Growth Mathematics Item Type Sampler.

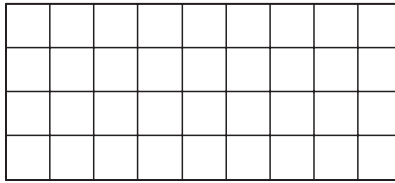
MATHEMATICS - ITEM TYPE SAMPLER

1. Which is equal to $9,000 + 900 + 9$?
 - A. 9,099
 - B. 9,909
 - C. 9,990
 - D. 9,999

2. Which **two** equations have a solution of $n = 8$?
 - A. $40 \div n = 5$
 - B. $18 + 10 = n$
 - C. $125 - n = 127$
 - D. $n \div 88 = 11$
 - E. $2 \times n = 16$

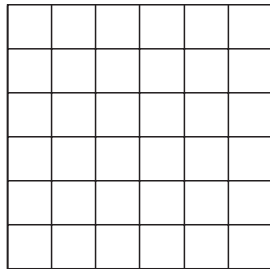
3. What is the product of 10×5 ?
 - A. 15
 - B. 50
 - C. 55
 - D. 60

4. Use the rectangle below to answer the question.

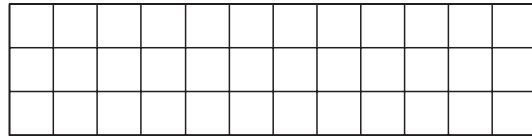


Which rectangle has the same area and a smaller perimeter than the rectangle shown?

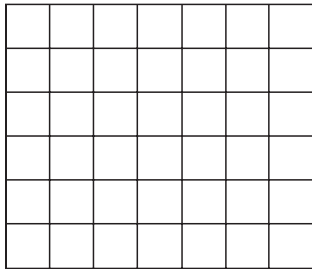
A.



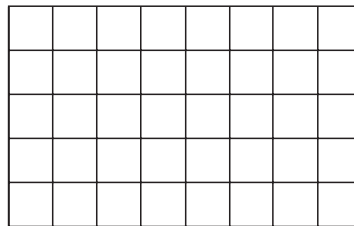
B.



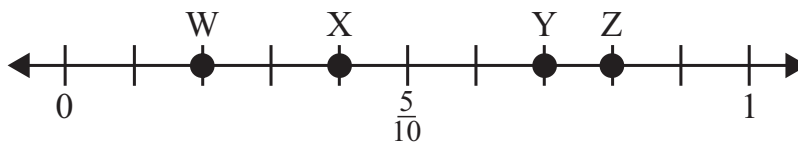
C.



D.



5. Use the number line below to answer the question.

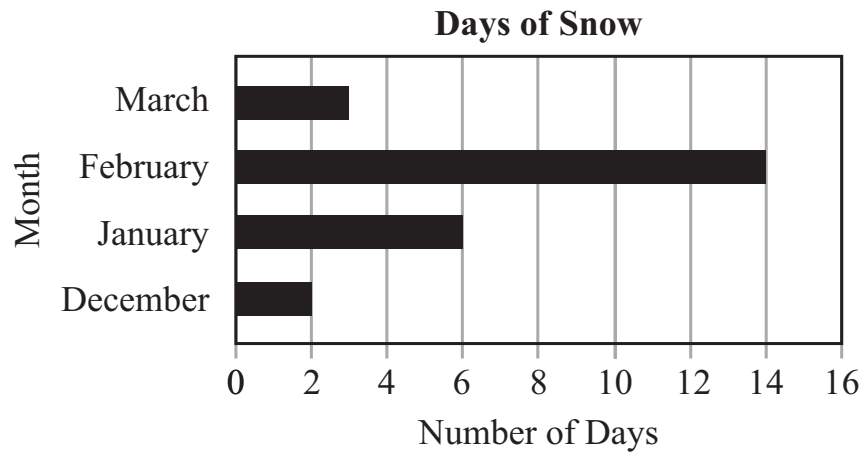


Which letter shows the location of $\frac{2}{10}$?

- A. W
- B. X
- C. Y
- D. Z

MATHEMATICS - ITEM TYPE SAMPLER

6. Use the graph below to answer the question.



How many more days of snow were there in February and December than in March and January?

- A. 6 days
- B. 7 days
- C. 8 days
- D. 9 days
7. Which fractions are greater than $\frac{3}{10}$ and less than $\frac{7}{10}$? Select **three** fractions.

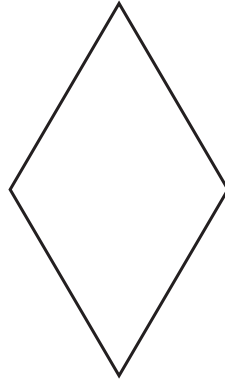
- A. $\frac{2}{10}$
- B. $\frac{5}{10}$
- C. $\frac{8}{10}$
- D. $\frac{4}{10}$
- E. $\frac{6}{10}$
- F. $\frac{1}{10}$

8. Which quadrilateral is a rectangle?

A.



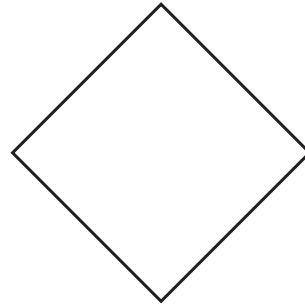
B.



C.



D.



9. Which is correct?

A. $267,479 < 266,394$

B. $397,645 < 397,654$

C. $424,986 > 424,996$

D. $606,742 > 616,635$

MATHEMATICS - ITEM TYPE SAMPLER

10. Lily has 56 fish in a fish tank. She buys 15 more fish and then gives 8 fish to a friend.
How many fish does Lily have now?

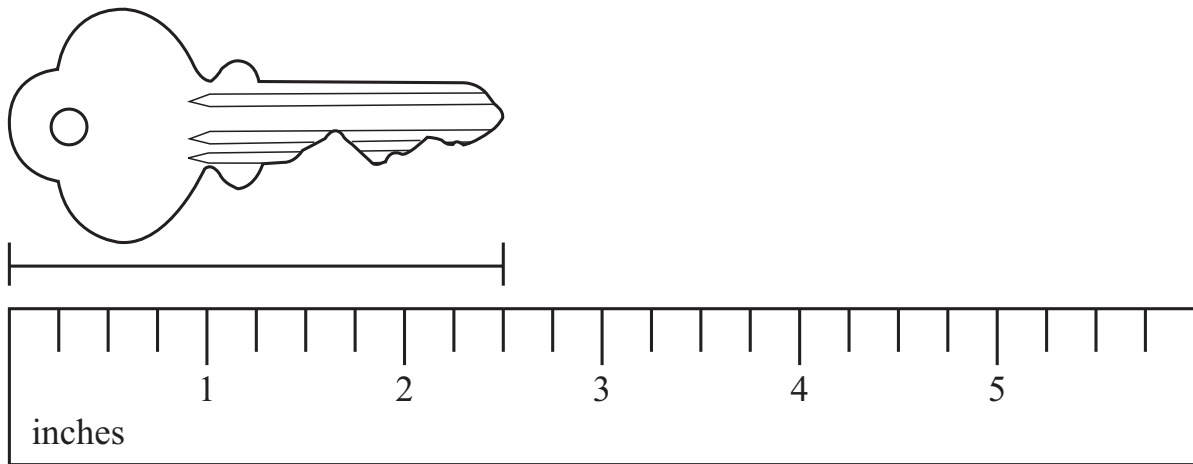
A. 53 fish
B. 63 fish
C. 73 fish
D. 79 fish

11. What is the difference?

$$643 - 297$$

A. 346
B. 366
C. 454
D. 940

12. Use the diagram below to answer the question.



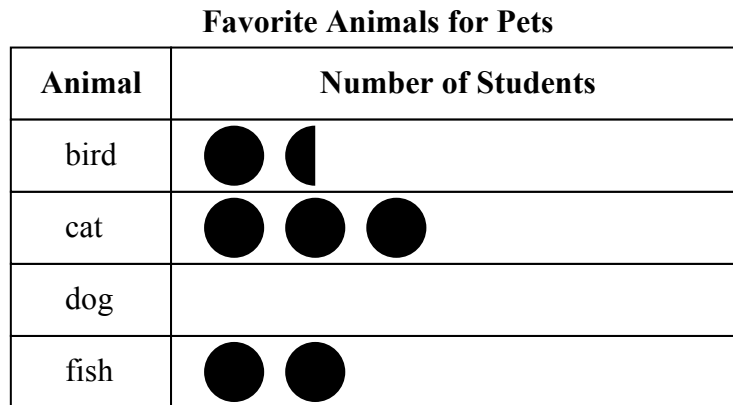
What is the length of the key to the nearest quarter inch?


- A. 2 inches
 - B. $2\frac{1}{4}$ inches
 - C. $2\frac{1}{2}$ inches
 - D. 3 inches
13. What is 7,158 rounded to the nearest hundred?

- A. 7,100
- B. 7,150
- C. 7,160
- D. 7,200

MATHEMATICS - ITEM TYPE SAMPLER

14. Students in a third grade class listed their favorite animal for a pet. The pictograph shows the results.



Key:  = 2 students

Part A

The number of students who said dogs are their favorite pet is missing from the pictograph. A total of 16 students said cats and dogs are their favorite. How many students said dogs are their favorite?

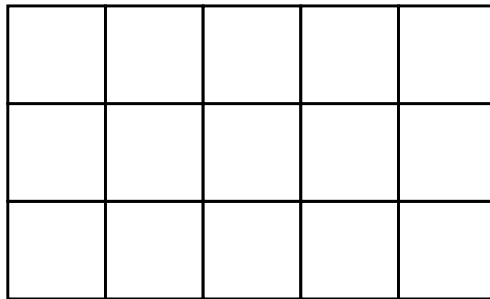
- A. 13 students
- B. 10 students
- C. 5 students
- D. 2 students

Part B

How many circles should be used in the pictograph for dogs?

- A. 5 whole circles
- B. 10 whole circles
- C. 4 whole circles and 1 half circle
- D. 6 whole circles and 1 half circle

15. Use the array to answer the question.



Which repeated addition sentence is represented by the array?

- A. $3 + 5$
- B. $5 + 5 + 5$
- C. $3 + 3 + 3$
- D. $5 + 5 + 5 + 5 + 5$

16. Use the numbers below to answer the question.

800, 775, 750, 725, 700, 675, 650

Beginning with 800, what is the pattern?

- A. add 25
- B. subtract 25
- C. add 50
- D. subtract 50

MATHEMATICS - ITEM TYPE SAMPLER

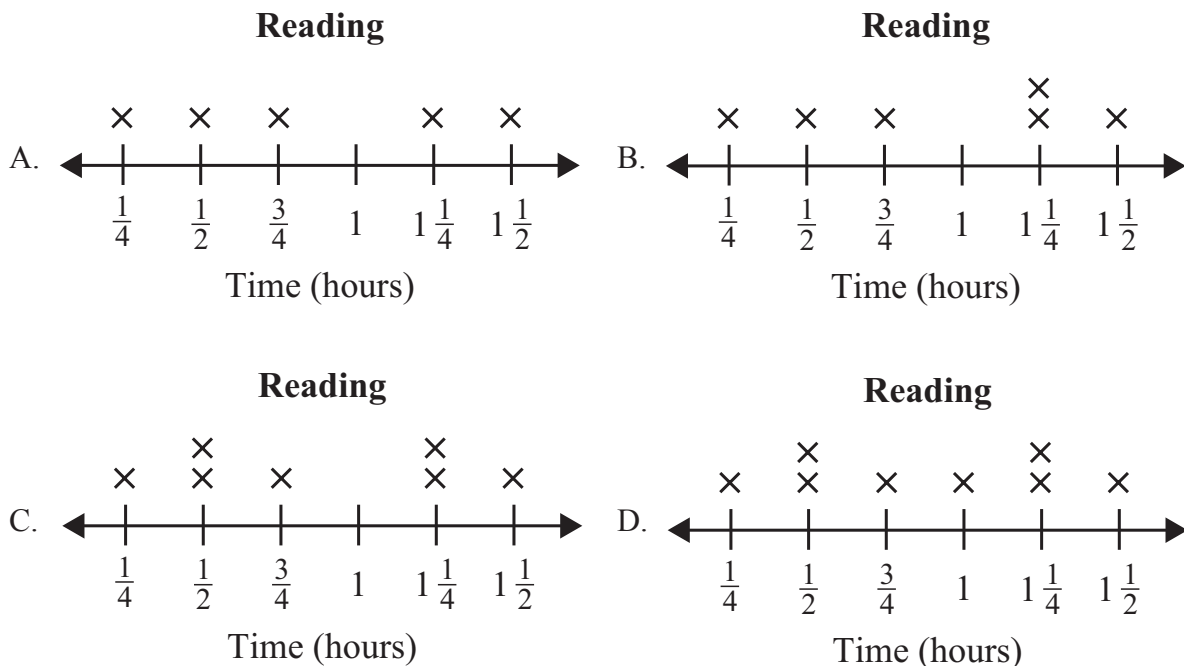
17. How many angles does a quadrilateral have?

- A. 3
- B. 4
- C. 5
- D. 6

18. Use the list below to answer the question.

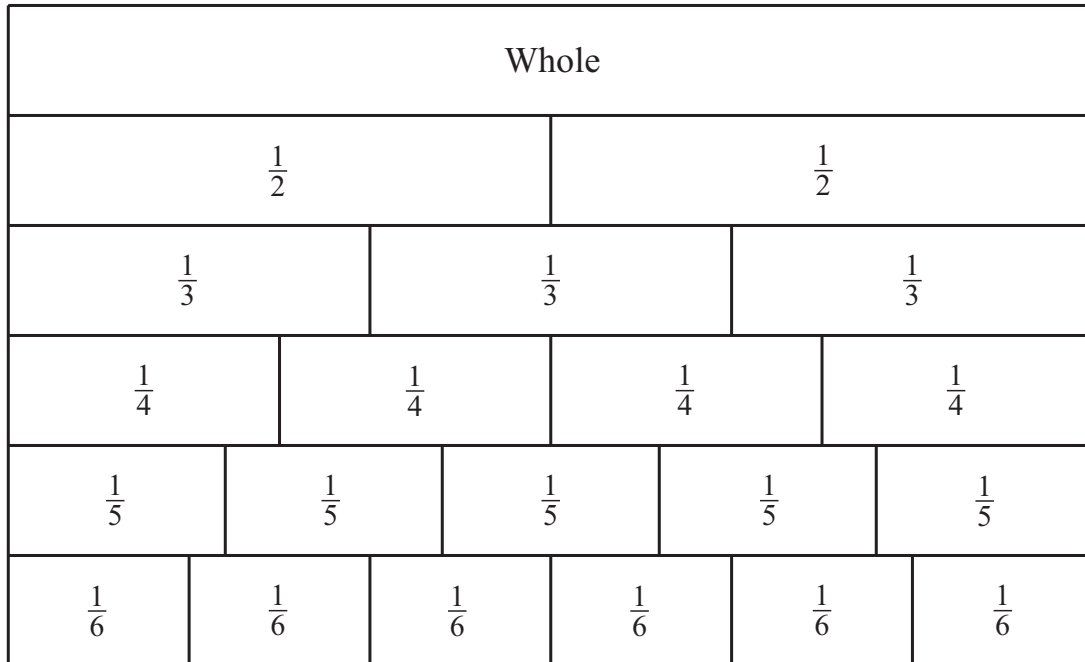
$$\frac{1}{4}, \frac{1}{2}, 1\frac{1}{4}, \frac{3}{4}, 1\frac{1}{2}, 1\frac{1}{4}, \frac{1}{2}$$

The list shows the number of hours Max spent reading each day for 7 days. Which line plot represents the number of hours Max spent reading?



19. Use the picture below to answer the question.

Fraction Strips



Which statement is true?

- A. $\frac{1}{2} = \frac{3}{5}$ B. $\frac{1}{3} = \frac{2}{4}$
- C. $\frac{2}{4} = \frac{4}{5}$ D. $\frac{2}{3} = \frac{4}{6}$

MATHEMATICS - ITEM TYPE SAMPLER

20. Devin works after school on Tuesdays and Wednesdays.

Part A

Devin worked after school from 5:40 p.m. to 7:10 p.m. on Tuesday. How much time did Devin spend working after school on Tuesday?

- A. 1 hour and 30 minutes
- B. 2 hours and 30 minutes
- C. 2 hours and 50 minutes
- D. 3 hours and 30 minutes

Part B

On Wednesday, Devin started work at 5:45 p.m. and stopped working 2 hours and 20 minutes later. At what time did Devin stop working on Wednesday?

- A. 7:05 p.m.
- B. 7:25 p.m.
- C. 7:45 p.m.
- D. 8:05 p.m.

**NSCAS Growth Grade 3
Item Type Sampler Answer Key
Mathematics**



Sequence	Key	Points
1.	B	1
2.	A, E	2
	Any one of the two answers correct	1
3.	B	1
4.	A	1
5.	A	1
6.	B	1
7.	B, D, E	2
	Any two of the three answers correct	1
8.	D	1
9.	B	1
10.	B	1
11.	A	1
12.	C	1
13.	D	1
14.	Part A: B Part B: A	2
	Part A or Part B	1
15.	B	1
16.	B	1
17.	B	1
18.	C	1
19.	D	1
20.	Part A: A Part B: D	2
	Part A or Part B	1