



West Virginia DEPARTMENT OF
EDUCATION

Computer-Based Practice Test Grade 3 Math

Updated August 2019

Prepared by the WVDE and the American Institutes for Research®

About the Practice Test Scoring Guide

The WVDE Practice Test Scoring Guides provide details about the items, student response types, correct responses, and related scoring considerations for WVDE Practice Test items.

Within this guide, each item is presented with the following information:

- Item number
- Cluster
- Content Standard
- Depth of Knowledge (DOK)
- Static presentation of the item
- Static presentation of student response field (when appropriate)
- Answer key, rubric or exemplar
- Applicable score point(s) for each item

The items included in this guide are representative of the kinds of items that students can expect to experience when taking the computer-based test for WVDE Grade 3 Math.

Grade 3 Math Practice Test

Item Number
1

Jacob has 18 DVDs and 3 shelves to put them on. He puts the same number of DVDs on each shelf.

How many DVDs are on each shelf?

6

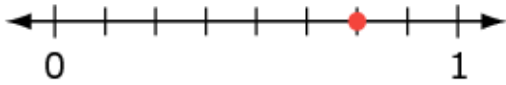
← → ↶ ↷ ✕

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 Point) Student entered **6** or any equivalent value.

Item Number
2

A number line is shown.



Create a fraction that represents the point on the number line.

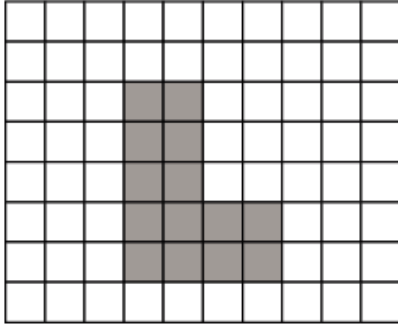
← → ↶ ↷ ✕


1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 Point) Student entered **6/8** or any equivalent value.

Item Number
3

The shaded part of the figure shown has an area of 14 square units.



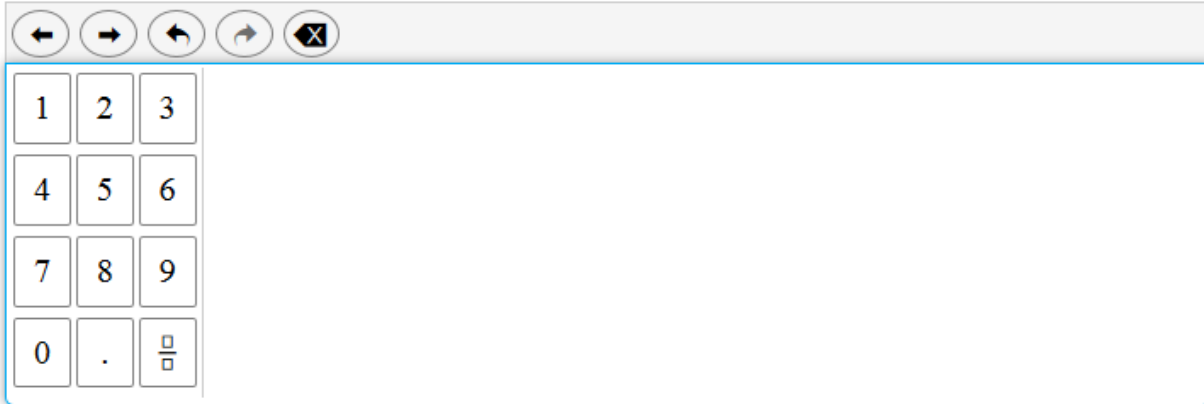
What does a  represent?

- one square unit
- two square units
- four square units
- fourteen square units

(1 Point) Student selected the correct option.

Item Number
4

Sara rides her bike 3 days a week. She rides for 10 minutes each day.
How many minutes does Sara spend riding her bike every 2 weeks?



(1 Point) Student entered **60** or any equivalent value.

Item Number
5

Two statements that describe a shape are shown.

- All of the sides have the same length.
- It is a quadrilateral.

Select all of the shapes for which both statements are always true.

- square
- hexagon
- rhombus
- rectangle
- equilateral triangle

(1 Point) Student selected the two correct options.

Item Number
6

A student writes a number.

- The number is greater than 275.
- The number rounds to the same nearest ten as 275.

What is one possible value of the number?

276

← → ↶ ↷ ✕

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 Point) Student entered **276** or any value greater than **275** and less than **285**.

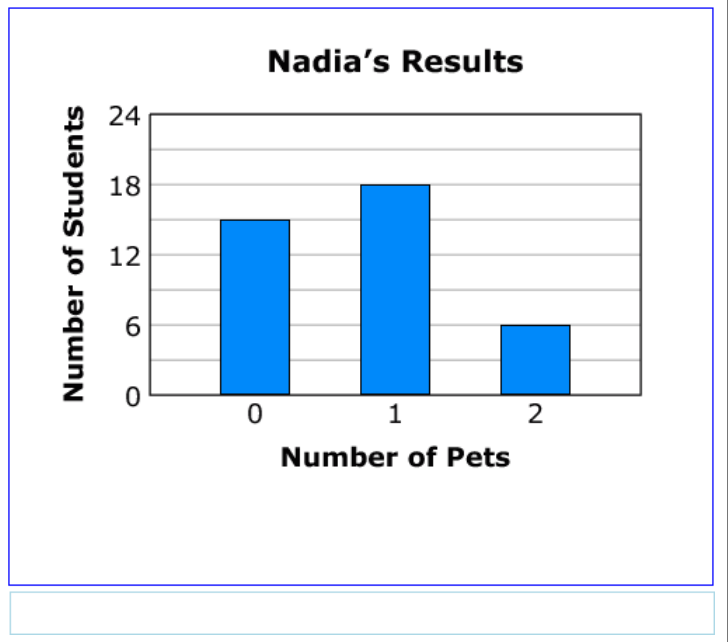
Item Number
7

Nadia asks each student in her class how many pets he or she has. The results are shown in the table.

Nadia's Results

Number of Pets	Number of Students
0	15
1	18
2	6

Click between the lines to create a bar graph that shows Nadia's results.



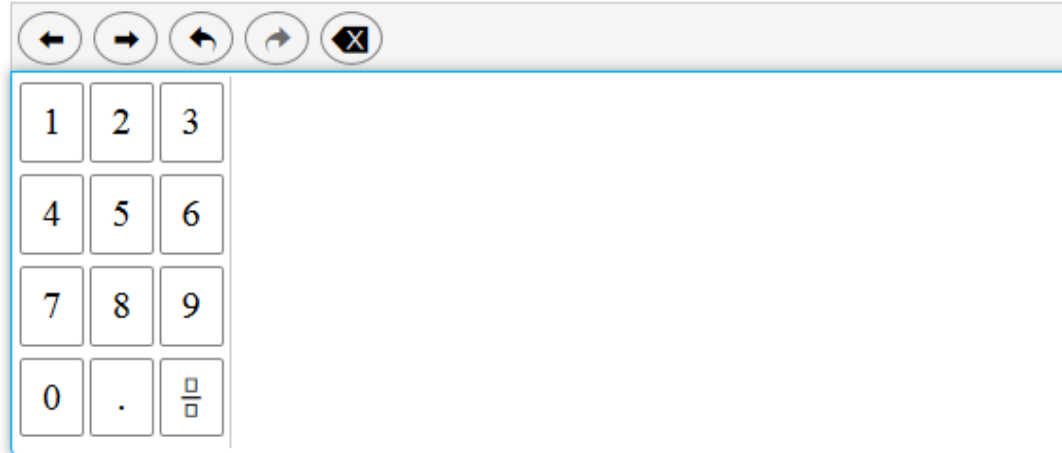
(1 point) Student created a correct graph.

Item Number
8

A comparison is shown.

$$\frac{1}{?} > \frac{1}{4}$$

What whole number could be the missing denominator?



The image shows a digital input interface for a math problem. At the top, a text box contains the number '2'. Below it is a toolbar with navigation icons: left arrow, right arrow, undo, redo, and a clear button (X). Below the toolbar is a numeric keypad with buttons for digits 1 through 9, 0, a decimal point, and a fraction template icon.

(1 point) Student entered a value of 1,2, or 3.

Item Number
9

An equation is shown.

$$12 \times 6 \times 5 \times 3 = 60 \times \square$$

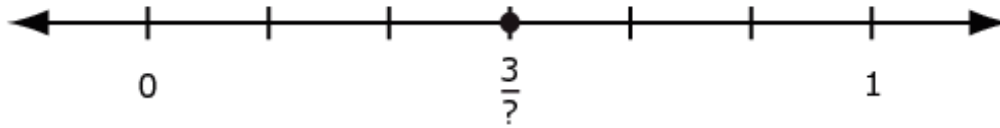
What is the missing value?



(1 Point) Student selected the correct option.

Item Number
10

A number line is shown.



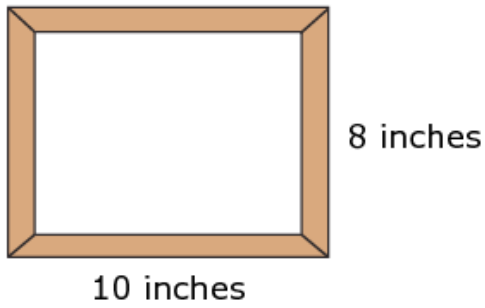
What is the missing value?

- (A) 1
- (B) 2
- (C) 3
- 6

(1 Point) Student selected the correct denominator

Item Number
11

A rectangular picture frame is shown.



What is the perimeter, in inches, of the outside of the picture frame?

36				
←	→	↶	↷	✖
1	2	3		
4	5	6		
7	8	9		
0	.	$\frac{\square}{\square}$		

(1 Point) Student selected the correct option.

Item Number
12

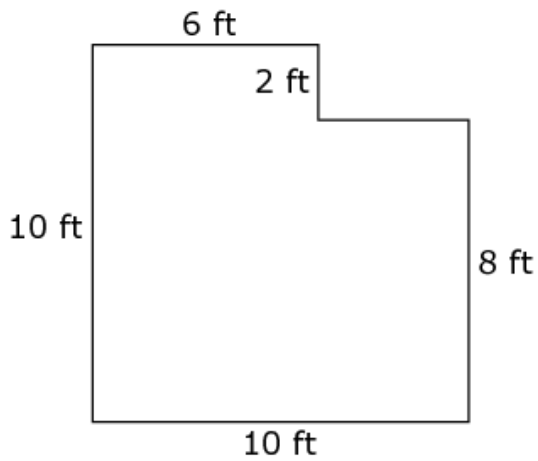
Enter a number to complete each equation.

9 -	<input type="text" value="3"/>	= 6
90 -	<input type="text" value="30"/>	= 60
900 -	<input type="text" value="300"/>	= 600

(1 point) Student entered three correct values.

Item Number
13

A shape is shown.



What is the area, in square feet, of the shape?

←→↶↷✕

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 Point) Student entered **92** or any equivalent value.

Item Number
14

An equation is shown.

$$\square \div 8 = 4$$

What is the missing number?

32

←→↶↷✖

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 point) Student selected the correct option.

Item Number
15

Select all of the numbers that round to 710 when rounded to the nearest ten.

700

703

706

708

720

(1 Point) Student checked both correct options.

Item Number
16

Create a fraction that is greater than $\frac{2}{8}$ and less than $\frac{2}{4}$.

$\frac{2}{5}$

← → ↶ ↷ ✕

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 Point) Student entered $\frac{2}{5}$ or any fraction greater than $\frac{2}{8}$ and less than $\frac{2}{4}$.

Item Number
17

Martin arrived at the library at 3:16 p.m. He left the library at 3:42 p.m.
How many minutes did Martin spend at the library?

26

← → ↶ ↷ ✕

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 Point) Student entered 26 or any equivalent value.

Item Number
18

An expression is shown.

$$30 \div 3$$

What is the value of the expression?

- 10
- 27
- 33
- 90

(1 Point) Student selected the correct option.

Item Number
19

A parallelogram is shown. Part of the parallelogram is shaded.



What fraction is represented by the shaded part of the parallelogram?

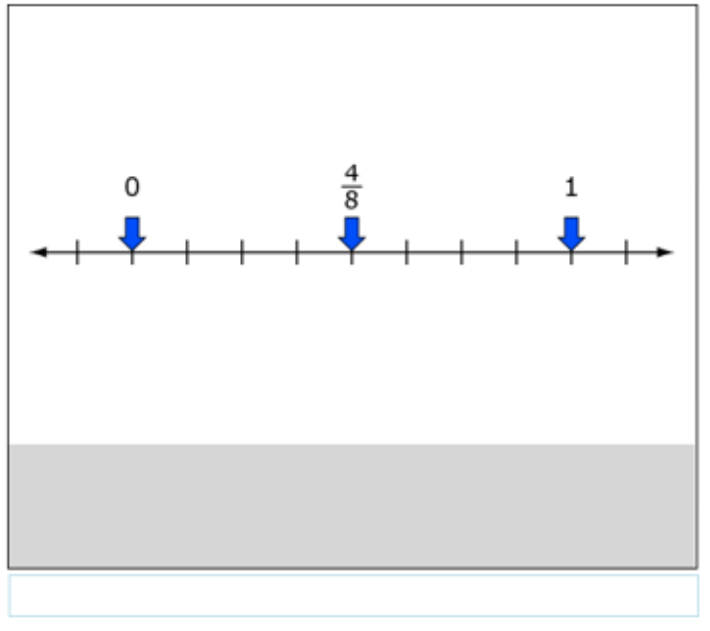
← → ↶ ↷ ✕

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 point) Student entered $\frac{1}{2}$ or $\frac{2}{4}$.

Item Number
20

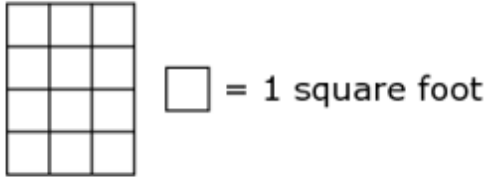
Drag 0, 1, and $\frac{4}{8}$ to correct locations on the number line.



(1 point) Student created the correct number line.

Item Number
21

The diagram shows the floor of Graham's closet.



What is the area, in square feet, of the floor of Graham's closet?

←→↶↷✕

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 point) Student entered **12** or any equivalent value.

Item Number
22

Jose uses skip-counting to create the pattern shown.

6, 12, 18, 24, ...

What is the next number in the pattern?

30

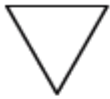
← → ↶ ↷ ✕

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

(1 Point) Student entered **30** or any equivalent value.

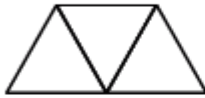
Item Number
23

The triangle shown represents $\frac{1}{6}$ of a whole.

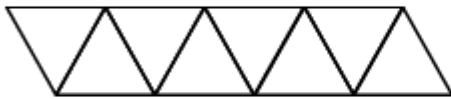


Which shape represents one whole?

(A)



(B)



(C)



(1 Point) Student selected the correct option.

Item Number

24

Carla bought 5 packages of stickers with 10 stickers in each package. Carla gave 30 stickers to her friends.

Create an equation to represent the number of stickers, s , that Carla has left. Use s in your equation.

$$5 \times 10 - 30 = s$$

←	→	↶	↷	✖		
1	2	3	s			
4	5	6	+	-	×	÷
7	8	9	<	=	>	
0	.	$\frac{\square}{\square}$	()			

(1 Point) Student entered $5 \times 10 - 30 = s$ or any equivalent equation.