

3rd Grade Ohio State Practice Math Test

Ohio Practice Test Grade 3

Grade 3

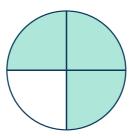
Questions

Nam	ie:	Class:
Date	2:	Score:
Sho	rt answer and multiple choice.	
Star DOk	ndard: 3.0A.3 < 1	
1		lves to put them on. If she puts an equal now many books will there be on each shelf?
	Answer:	

Standard: 3.NF.3.b

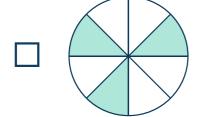
DOK 1

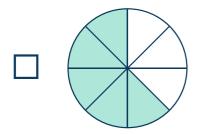
Gina has $\frac{3}{4}$ of a whole fraction model which is pictured below.

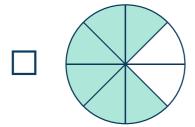


Which model is shaded to represent an equivalent fraction to the model above?









Standard: 3.NF.3.d

DOK 2

3 What is a number that will make the comparison true?

$$\frac{1}{?} < \frac{1}{3}$$

Answer: _____

Standard: 3.NBT.1

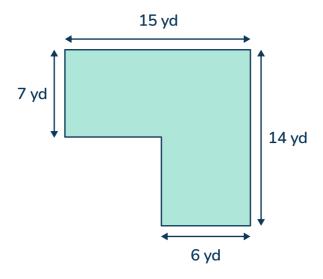
DOK 2

- 4 Select all the numbers that when rounded to the nearest hundred, round to be 600.
 - 607
 - **617**
 - 653
 - 640
 - <u></u>661

Standard: 3.MD.7.d

DOK 2

Julie moved into a new house. The diagram below shows the shape of her new room.



What is the area of Julie's new room in square yards?

•		
Answer:		

Standard: 3.OA.4

DOK 1

6 Complete the table below.

24	÷		=	8
8	×	9	=	
56	÷	7	=	
	×	6	=	54

Ohio State Practice Math Test | Grade 3 | Questions Standard: 3.MD.6 DOK 2 The diagram below shows the floor plan of Lindsay's bedroom. Represents 1 square foot. What is the area of Lindsay's bedroom in square feet? Answer:_____ Standard: 3.MD.1.a DOK 2 Dillion walks to school. He leaves his house at 7:15 AM and he arrives at 8 school at 7:40 AM. How many minutes does it take him to walk to school? Answer:_____

Standard: 3.NF.2.a

DOK 2

9 Which fraction is represented by point P on the number line shown below?



Standard: 3.MD.3

DOK 2

10 The graph below shows the flavors of ice cream cones sold in an hour at the Lighthouse Ice Cream Shop.

Chocolate	
Vanilla	
Honeycomb	
Strawberry	

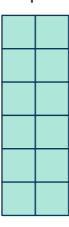
How many honeycomb ice creams were sold?

Answer:_____

Standard:3.MD.8

DOK 3

11 Select the figure that has the same perimeter as



If = 1 square unit

Standard: 3.OA.3

DOK 2

Lillian Elementary School reserved 3 coaches for the 5th grade school trip.
Each of the buses holds 50 students. If the coaches are completely filled, how many students are going on the trip?

Answer:_____

Standard: 3.G.2

DOK 2

13 The square below represents $\frac{1}{4}$ of a whole.



Select the shapes that represent one whole.

Standard: 3.NBT.2

DOK 1

14 Find the difference:

Standard: 3.MD.1.a

DOK 2

15 Ty arrives at his friend's house at 2:45 PM.

He stays for 30 minutes.

What time did Ty leave his friend's house?

Standard: 3.NF.3.d

DOK 2

16 Create a fraction that is greater than $\frac{3}{8}$ and less than $\frac{3}{4}$.

Answer:_____

Standard: 3.NBT.2

DOK 1

17 What is the value of the expression 905 + 327?

Standard: 3.OA.5

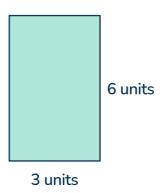
DOK 1

18 Create a related multiplication equation using the same numbers as the equation $42 \div 7 = 6$

Standard: 3.MD.7.b

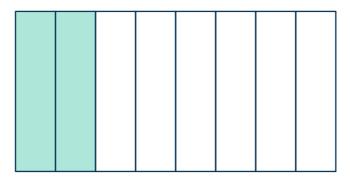
DOK 2

19 Kellie draws a rectangle in her notebook. She labels two of the sides as 3 units and the other two sides as 6 units. What is the area of the rectangle she drew?



DOK 2

Angela had a rectangle with 8 equal parts. She shaded 2 of them. Select the fractions that could represent the picture.



- $\frac{2}{8}$
- $\frac{3}{8}$
- $\frac{1}{3}$
- $\frac{1}{4}$

Standard: 3.0A.7

DOK 3

21 Xavier has 45 lollipops. He gives all of the lollipops to 5 friends. If each friend gets the same number of lollipops, how many lollipops does each friend get?

Answer:_____

Standard: 3.NF.2.b

DOK 2

Place the numbers $0, \frac{5}{8}$, and 1 on the number line.

Standard: 3.OA.8

DOK 3

Devin has 7 boxes of ping pong balls with 12 balls in each box. Devin gave 22 ping pong balls to her cousin.

A. Write an equation to represent the number of ping pong balls, b, that Devin has left.

Answer	•						

B. Solve for the amount of ping pong balls that Devin has left.

An	swe	r:					

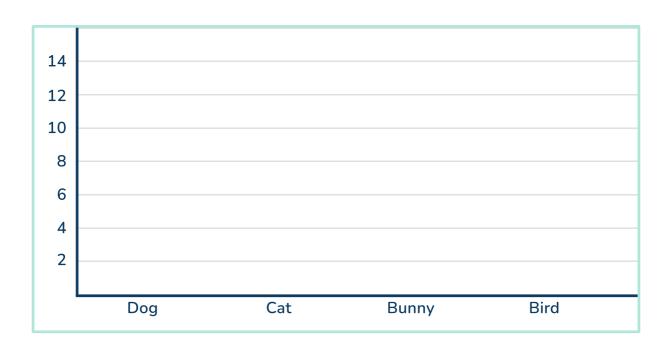
Standard: 3.MD.3

DOK 3

The table below represents the results of a survey taken in a second grade class about the types of pets they have.

Type of Pet	Tally
Dog	12
Cat	7
Bunny	8
Bird	3

A. Create a bar graph that represents the results of the survey.



R	Ном	many	more	students	have a	doa	than	2	hird?
D.	\square	IIIdlly	more	students	nave a	aog	ulali	a	DII U :

Answer:_____

C. How many students responded to the survey?

Answer:_____

Rationales

Item	KEY	Rationale
1		$24 \div 3 = 8, 8$ books per shelf

Item	KEY	Rationale
2		This fraction model represents 6 shaded parts out of 8 equal parts which is $\frac{6}{8}$ $\frac{6 \div 2}{8 \div 2} = \frac{3}{4} \text{ because if you divide the numerator}$ and the denominator by 2 it will be equal to $\frac{3}{4}$. Also, looking at the models you can see that the same area is shaded in.

Item	KEY	Rationale
3	Possible numbers 4, 5, 6, 7, 8, 9,	$\frac{1}{4} < \frac{1}{3} OR$ $\frac{1}{5} < \frac{1}{3} OR$ $\frac{1}{6} < \frac{1}{3}$

Item	KEY	Rationale
4	607, 617, 640	607 rounded to the nearest hundred is 600 because the tens digit is 0 which means to round down. 617 rounded to the nearest hundred is 600 because the tens digit is 1 which means to round down. 640 rounded to the nearest hundred is 600 because the tens digit is 4 which means to round down.

Item	KEY	Rationale
5	$147 yd^2$	$15 \times 7 = 105$ $6 \times 7 = 42$
		105 + 42 = 147

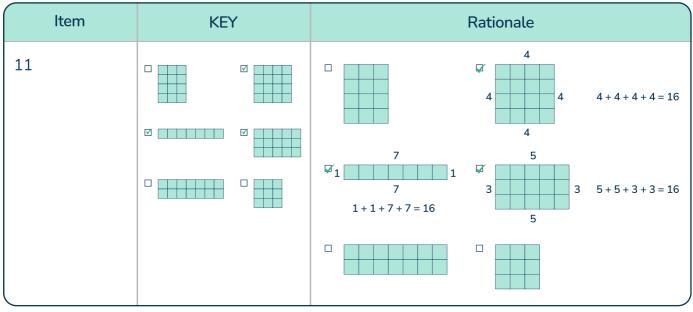
ltem	KEY	Rationale
6	First row missing number: 3 Second row missing number: 72 Third row missing number: 8 Fourth row missing number: 9	$24 \div 3 = 8$ $8 \times 9 = 72$ $56 \div 7 = 8$ $9 \times 6 = 54$

Item	KEY	Rationale
7	30 square feet	Counting up all the small squares, there are 30 of them. So, the area is 30 square feet.

Item	KEY	Rationale
8	25 minutes	7:15 AM to 7:40 AM is 25 minutes. You can count in 5 minute intervals from 7:15 to 7:50 OR You can subtract 7:40 - 7:15 = 25 minutes

Item	KEY	Rationale
9	1/4	The number line is divided into 4 equal parts. So, point P represents $\frac{1}{4}$

Item	KEY	Rationale
10	5	There are 2 and a half cones represented for Honeycomb. If each cone symbol represents 2 cones sold, then $2\frac{1}{2} \times 2 = 5$ OR you can count each cone Chocolate Vanilla Honeycomb Strawberry
		1+ 2+ 2=5



Item	KEY	Rationale
12	150 students	3 x 50 = 150

Item	KEY	Rationale
13	The two that should be selected are the first one and the third one.	

Item	KEY	Rationale
14	761	Using regrouping strategies 2467 - 1706 = 761

Item	KEY	Rationale
15	3:15 PM	2:45 PM plus 30 minutes is 3:15 PM. You can count in intervals of 5 minutes using a clock. OR You can add 30 minutes to 2:45 PM.

ltem	KEY	Rationale
16	$\frac{4}{8} = \frac{1}{2} \text{ or } \frac{5}{8}$	$\frac{3}{4} = \frac{6}{8}$, so $\frac{4}{8} = \frac{1}{2}$ and $\frac{5}{8}$ are possible answers that are greater than $\frac{3}{8}$ and less than $\frac{3}{4}$.

Item	KEY	Rationale
17	1232	Using regrouping strategies 905 + 327 = 1232

Item	KEY	Rationale
18	$6 \times 7 = 42$ OR $7 \times 6 = 42$	Creating a related multiplication equation to $42 \div 7 = 6$ means to use those same numbers to make a multiplication equation instead of division. Using the numbers 6, 7, and 42 the multiplication related equations can be 7 x 6 = 42 OR $6 \times 7 = 42$.

Item	KEY	Rationale	
19	$18\ units^2$	Area = base x height Area = 3×6 Area = 18 units^2	

Item	KEY	Rationale	
20	$\frac{2}{8}$ and $\frac{1}{4}$	Two out of 8 or 1 out of 4 is shaded. So, $\frac{2}{8} = \frac{1}{4}$.	

ltem	KEY	Rationale	
21 9 lollipops		$45 \div 5 = 9$, each friend gets 9 lollipops.	

Item	KEY	Rationale		
22	See Rationale	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

ltem	KEY	Rationale		
23. A.	7 × 12 - 22 = <i>b</i>	7 times 12 balls in each box minus the 22 she gave away.		
23. B.	62	7 x 12 = 84 84 - 22 = 62 Devin has 62 ping pong balls left.		

ltem	KEY	Rationale	
24 A.	14 12 12 10 8 7 8 8 6 4 2 Dog Cat Burny Bird	Creating a bar graph to represent data in the survey. There are 30 student responses, 12 for dog, 7 for cat, 8 for bunny and 3 for bird.	
24. B.	9 more students	12 - 3 = 9	
24. C.	30	12 + 7 + 8 + 3 = 30	

Breakdown of Assessment				
Operations and Algebraic thinking (OA)	Number and Operations in Base Ten (NBT)	Number and Operations - Fractions (NF)	Measurement and Data (MD)	Geometry (G)
This Assessment: 24%	This Assessment: 12%	This Assessment: 28%	This Assessment: 32%	This Assessment: 4%

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Michelle Craig, Instructional Coach,

Sherwood Forest Elementary, Washington

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