

3rd Grade Maryland State Practice Math Test

Maryland Practice Test Grade 3



Questions	
Name:	Class:
Date:	Score:
1 Emily has 8 boxes of chocolates	Fach box contains 12 pieces of choco

1 Emily has 8 boxes of chocolates. Each box contains 12 pieces of chocolate. Each piece of chocolate has 3 layers. Which equation shows the total number of chocolates?

A. 8 × 3 B. 12 × 8 C. 3 × 12 D. 8 × 12 × 3

2 The grocery store has 18 avocados. A new crate with 4 bags of 6 avocados just arrived. How many avocados does the grocery store have now?

Which equation can be used to solve?

A. 18 + 4 + 6 = aB. $6 + 4 \times 18 = a$ C. $(18 + 4) \times 6 = a$ D. $4 \times 6 + 18 = a$

3 What is the area of the rectangle?



- A. 24 units
- B. 24 square units
- C. 28 units

4

D. 28 square units



Complete the sentence: The area of the shaded triangle is ____ of the area of the shape.

A.
$$\frac{1}{2}$$

B. $\frac{1}{3}$
C. $\frac{1}{4}$
D. $\frac{1}{8}$

5 8 × 40 = *n*

What is the value of n?

A. 320 B. 120 C. 240 D. 32

6 What number makes the equations true?

6 × _____ = 42

42 ÷ 6 = _____

A. 6 B. 7 C. 8

D. 9

7 Which fraction is larger than $\frac{3}{4}$?

A.
$$\frac{4}{8}$$

B. $\frac{4}{6}$
C. $\frac{2}{3}$
D. $\frac{5}{6}$

8

Cookies Sold

Friday	
Saturday	
Sunday	

🙂 = 6 cookies

How many more cookies were sold on Saturday than on Friday?

A. 15 B. $2\frac{1}{2}$ C. 6 D. $12\frac{1}{2}$

9

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Zane circles the products of 8 in red and the products of 4 in blue. Which statements about the products are true? Select all the correct answers.

- A. All products of 8 are also products of 4
- B. All products of 4 are also products of 8
- C. The products of 4 are always odd
- D. The products of 8 are always even
- E. Half a product of 8 is always a product of 4



Which fraction is equivalent to the value of the point shown?



11



Which problems can be solved by using the model above? Select all the correct answers.

A. There are 8 books. Each book has 40 pages. How many pages does one book have?
B. There are 8 packs of balloons. Each pack has 5 balloons. How many balloons are there in total?
C. There are 40 ounces of chocolate syrup. Each milkshake has 5 ounces of chocolate syrup. How many milkshakes can be made?
D. Malia scored 8 points and then 5 more points. How many points did she score in total?
E. There are 8 rose bushes. Each rose bush has 40 roses. How many roses are there in total?

- 12 Liam has 4 rabbits. Each rabbit eats 2 ounces of pellets each day. Liam has 48 ounces of pellets. How many more days can Liam feed his rabbits with the pellets he has?
 - A. 6 days B. 12 days
 - C. 8 days
 - D. 24 days

- 13 What is 6,829 rounded to the nearest hundred?
 - A. 6,900 B. 6,830 C. 6,800
 - D. 7,000
- 14 What time is shown on the clock?



- A. 7:13 B. 2:35
- C. 2:40
- D. 2:07

15 Which number line correctly shows the fraction $\frac{1}{5}$?



16 Which is the best estimate for the weight of a cat?

- A. 4 kilograms
- B. 40 grams
- C. 400 kilograms
- D. 400 grams

17 Which shape correctly completes the comparison?



18 Complete the sentence: A rectangle and a parallelogram both always have...

- A. ...equal sides.
- B. ...congruent angles.
- C. ...parallel sides.
- D. ...right angles.

- 19 Jake has 24 feet of ribbon. What are the possible dimensions for a rectangular frame that Jake can completely wrap the ribbon around? Select all the correct answers.
 - A. 7 feet by 5 feet
 - B. 4 feet by 8 feet
 - C. 12 feet by 2 feet
 - D. 6 feet by 6 feet
 - E. 6 feet by 4 feet

20 Which equation can help you solve $63 \div 7 = \triangle$?

A. $7 \times \triangle = 63$ B. $7 \div \triangle = 63$ C. $\triangle \div 7 = 63$ D. $\triangle \times 63 = 7$

- 21 Solve 583 296.
 - A. 313 B. 297
 - C. 293
 - D. 287



What is the missing value?

A. 0 B. $\frac{4}{4}$ C. $\frac{1}{4}$ D. $\frac{0}{4}$ 23 A farmer has 60 apples. He wants to split them into 5 baskets. Each basket will have the same number of apples. Which equation can be used to find the number of apples in each basket?

A. 60 + 5 = ? B. 60 - 5 = ? C. 60 ÷ 5 = ? D. 60 × 5 = ?

24 The shape below is made of square units.



Which expressions can be used to find the area of the shape? Select all the correct answers.

A. 6 + 6 + 6B. 3 + 6C. 3×6 D. 3 + 6 + 3 + 6E. 3 + 3 + 3 + 3 + 3 + 3 25 Which group of shapes only has quadrilaterals?



26 Which shapes shows a shaded amount equivalent to $\frac{1}{2}$?



27 Evan is solving $? \div 8 = 3$. Which equation can help Evan solve?

A. 3 × 8 = ? B. 3 ÷ ? = 8 C. ? × 3 = 8 D. 3 ÷ 8 = ?

- 28 On Monday, a factory produced 46 toys. For the next 4 days, the factory plans to produce 18 toys each day. By the end of the week, how many total toys will the factory have produced?
 - A. 68 toys
 - B. 118 toys
 - C. 154 toys
 - D. 202 toys
- Pierre lives on a 1-mile street. Pierre lives $\frac{3}{10}$ of a mile from the stop sign. There is a school $\frac{7}{10}$ of a mile from the stop sign. Which number line correctly shows Pierre's house and the school?



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30 Which shape has an area of 16 units?



31 Which equation is equivalent to 7×8 ? Select all the correct answers.

A. 7 + (4 + 4)B. $(5 \times 8) + (2 \times 8)$ C. $3 \times 7 \times 8$ D. $(7 + 4) \times (7 + 4)$ E. $8 \times (5 + 2)$

- **32** A baker has 6 containers of flour. Each container has 15 grams of flour. How many grams of flour in total does the baker have?
 - A. 90 grams
 - B. 65 grams
 - C. 75 grams
 - D. 21 grams



Which fraction shows point Q?

A.
$$\frac{6}{5}$$

B. $\frac{5}{6}$
C. $\frac{5}{4}$
D. $1\frac{1}{2}$

- 34 Jamal earned 315 points on Level 1 and 492 points on Level 2. He lost 87 points on Level 3. About how many points did Jamal have at the end of Level 3?
 - A. 400 points
 - B. 500 points
 - C. 600 points
 - D. 700 points

- Emma spends 35 minutes studying, then plays a game on her phone for23 minutes. Afterward, she has a snack for 12 minutes. If she finishesher snack at 3:45 pm, what time did Emma start studying?
 - A. 2:25 pm B. 4:55 pm C. 2:35 pm D. 4:45 pm

36 Which rectangle is divided into 4 equal parts?



- **37** Each box contains 6 oranges. There are 72 oranges in total. How many boxes are there?
 - A. 12 boxes
 - B. 78 boxes
 - C. 9 boxes
 - D. 15 boxes

38 Micah put two rectangles together to create the shape below.



What is the area, in square inches, of the shape that Micah created?

- A. 25 square inches
- B. 56 square inches
- C. 70 square inches
- D. 76 square inches

- **39** How can you arrange 36 buttons in equal rows? Select all the correct answers.
 - A. 3 rows of 8
 - B. 12 rows of 3
 - C. 30 rows of 6
 - D. 6 rows of 6
 - E. 4 rows of 9

40 Which context can be represented by 36 ÷ 4?

A. There were 36 books on the shelf. Then Wyatt borrowed 4 books.

B. Wyatt had 4 stickers. Then he received 36 more stickers.

C. Wyatt created 36 drawings. He made 4 times as many drawings as Lila did.

D. Wyatt has 4 gift bags. He puts 36 party favors equally into the bags.

Standard: 3.OA.1, 3.OA.2, 3.OA.4 DOK 3 Short Answer Response - 2 points

41 Griffin is solving $\triangle \div 8 = 4$. He uses $8 \times 4 = \triangle$ to find the value of \triangle . Will this solving strategy work? Why or why not?

Standard: 3.MD.4, 3.NF.3 DOK 3 Short Answer Response - 2 points

42 Sanjay is growing 12 plants. Sanjay records the height of each plant (in feet):

 $\frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{1}{4}, \frac{5}{8}, \frac{1}{2}, 1, \frac{5}{8}, \frac{1}{4}, \frac{1}{2}, \frac{5}{8}, \frac{5}{8}$

Graph the height of Sanjay's plants on the line plot below.



Standard: 3.NF.2, 3.NF.3 DOK 3 Extended Response - 4 points

43 PART A: Fill in the blanks with the two equivalent fractions shown on the number line.



PART B: Show where the fraction $\frac{4}{4}$ belongs on the number line. Explain how you know.

Answer Key - Multiple Choice

ltem number	Correct answer	Standard(s)	DOK
1	В	3.0A.1	DOK 2
2	D	3.OA.8	DOK 2
3	D	3.MD.5, 3.MD.6	DOK 1
4	С	3.G.2, 3.NF.1	DOK 2
5	А	3.NBT.3	DOK 1
6	В	3.OA.4	DOK 1
7	D	3.NF.3d	DOK 1
8	А	3.MD.3	DOK 2
9	A, D, E	3.OA.9	DOK 2
10	С	3.NF.2, 3.NF.3	DOK 2
11	B, C	3.OA.3	DOK 2
12	А	3.OA.8	DOK 2
13	С	3.NBT.1	DOK 1
14	В	3.MD.1	DOK 1
15	А	3.NF.1, 3.NF.2a	DOK 1
16	А	3.MD.2	DOK 2
17	D	3.NF.3d	DOK 2
18	С	3.G.1	DOK 2
19	A, B, D	3.MD.8	DOK 2

ltem number	Correct answer	Standard(s)	DOK
20	А	3.OA.6	DOK 1
21	D	3.NBT.2	DOK 2
22	А	3.NF.3c	DOK 1
23	С	3.0A.2	DOK 1
24	A, C, E	3.MD.7, 3.OA.1	DOK 2
25	D	3.G.1	DOK 1
26	D	3.NF.3a, 3.NF.3b	DOK 1
27	А	3.OA.4	DOK 1
28	В	3.OA.8	DOK 2
29	D	3.NF.2	DOK 2
30	D	3.MD.5	DOK 1
31	Β, Ε	3.OA.5	DOK 2
32	А	3.MD.2	DOK 1
33	С	3.NF.2	DOK 1
34	D	3.NBT.2, 3.OA.8	DOK 2
35	С	3.MD.1	DOK 2
36	В	3.G.2	DOK 1
37	А	3.OA.3	DOK 1
38	D	3.MD.7d	DOK 2
39	B, D, E	3.0A.1	DOK 1
40	С	3.OA.2	DOK 1

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Item	KEY	Rationale
41	2 points	Student correctly identifies that Griffin's strategy will work and clearly explains the connection between the two equations.
	1 point	Student correctly identifies that Griffin's strategy will work but does not clearly explain the connection between the two equations.
	0 points	Student is incorrect or leaves the response blank.

Item	KEY	Rationale			
42	2 points	Student correctly creates a scale on the line plot and records each fraction. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
	1 point	Student creates a scale on the line plot and records each fraction, making 1 or 2 mistakes.			
	0 points	Student makes more than 2 mistakes or leaves the response blank.			

ltem	KEY	Rationale
43	4 points	Student correctly identifies the missing fractions as $\frac{1}{3}$ and $\frac{2}{6}$ and $\frac{4}{4}$ as 1. Student clearly explains that 4 fourths is 4 out of 4 and equal to 1 whole.
	3 points	Student correctly identifies the missing fractions as $\frac{1}{3}$ and $\frac{2}{6}$ and $\frac{4}{4}$ as 1, but does not clearly explain why 44 is equal to 1 whole.
	2 points	Student correctly identifies 1 of the 2 the missing fractions as $\frac{1}{3}$ and $\frac{2}{6}$ and $\frac{4}{4}$ as 1. Student explains that 4 fourths is 4 out of 4 and equal to 1 whole.
	1 point	Student incorrectly identifies 2 out of the 3 fractions - the missing fractions or $\frac{4}{4}$.
	0 points	Student does not identify any of the fractions correctly or leaves the response blank.

ANSWERS SORTED BY CCSS STRAND

ΟΑ				
ltem number	Correct answer	Standard(s)	DOK	
1	В	3.0A.1	DOK 2	
2	D	3.OA.8	DOK 2	
6	В	3.OA.4	DOK 1	
9	A, D, E	3.OA.3	DOK 2	
11	B, C	3.OA.9	DOK 2	
12	А	3.OA.8	DOK 2	
20	А	3.OA.6	DOK 1	
23	С	3.OA.2	DOK 1	
27	А	3.OA.4	DOK 1	
28	В	3.OA.8	DOK 2	
31	B, E	3.OA.5	DOK 2	
37	А	3.OA.3	DOK 1	
39	B, D, E	3.0A.1	DOK 1	
40	С	3.OA.2	DOK 1	
41	Short Answer Response	3.0A.1, 3.0A.2, 3.0A.4	DOK 3	

NBT				
ltem number	Correct answer	Standard(s)	DOK	
5	А	3.NBT.3	DOK 1	
13	С	3.NBT.1	DOK 1	
21	D	3.NBT.2	DOK 2	
34	D	3.NBT.2, 3.OA.8	DOK 2	

NF				
Item number	Correct answer	Standard(s)	DOK	
7	D	3.NF.3d	DOK 1	
10	С	3.NF.2, 3.NF.3	DOK 2	
15	А	3.NF.1, 3.NF.2a	DOK 1	
17	D	3.NF.3d	DOK 1	
22	А	3.NF.3c	DOK 1	
26	D	3.NF.3a, 3.NF.3b	DOK 1	
29	D	3.NF.2	DOK 2	
33	С	3.NF.2	DOK 1	
43	Short Answer Response	3.NF.2, 3.NF.3	DOK 3	

MD					
ltem number	Correct answer	Standard(s)	DOK		
3	D	3.MD.5, 3.MD.6	DOK 1		
8	А	3.MD.3	DOK 2		
14	В	3.MD.1	DOK 1		
16	А	3.MD.2	DOK 2		
19	A, B, D	3.MD.8	DOK 2		
24	A, C, E	3.MD.7, 3.OA.1	DOK 2		
30	D	3.MD.5	DOK 1		
32	А	3.MD.2	DOK 1		
35	С	3.MD.1	DOK 2		
38	D	3.MD.7d	DOK 2		
42	Short Answer Response	3.MD.4, 3.NF.4	DOK 3		

G			
ltem number	Correct answer	Standard(s)	DOK
4	С	3.G.2, 3.NF.1	DOK 2
18	С	3.G.1	DOK 2
25	D	3.G.1	DOK 1
36	В	3.G.2	DOK 1

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