



MISSISSIPPI  
DEPARTMENT OF  
EDUCATION

Ensuring a bright *future* for every child

# Grade 3 Mathematics

## *Practice Test*



**Read each question or problem carefully. Then, answer the question or work the problem. Be sure to mark your response in this test book.**

- 1.** Which groupings represent 36 apples placed equally into baskets?

Select **two** answer choices.

- Ⓐ 6 apples in 4 baskets
- Ⓑ 6 apples in 6 baskets
- Ⓒ 7 apples in 4 baskets
- Ⓓ 8 apples in 3 baskets
- Ⓔ 9 apples in 4 baskets

- 2.** Find the difference.

$$\$900 - \$631$$

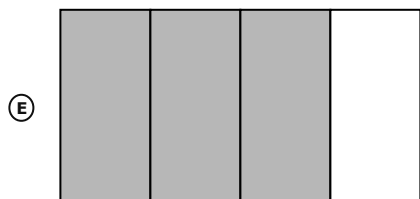
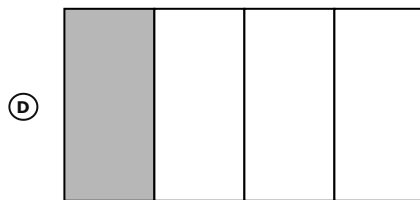
- Ⓐ \$231
- Ⓑ \$269
- Ⓒ \$331
- Ⓓ \$369

3. Which expressions or models represent the fraction  $\frac{2}{3}$ ?

Select **two** answer choices.

Ⓐ  $\frac{1}{3} + \frac{1}{3}$

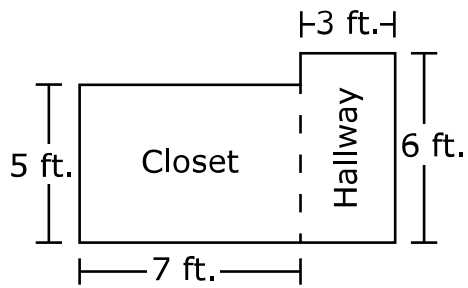
Ⓑ  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$



4. Select a box in each row to identify the expression represented by each model.

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5. Principal Carlton wants new tile for a closet and a hallway in the school.



How much tile is needed for both areas?

- Ⓐ 24 square feet
- Ⓑ 53 square feet
- Ⓒ 78 square feet
- Ⓓ 110 square feet

**6.** Which shapes are quadrilaterals?

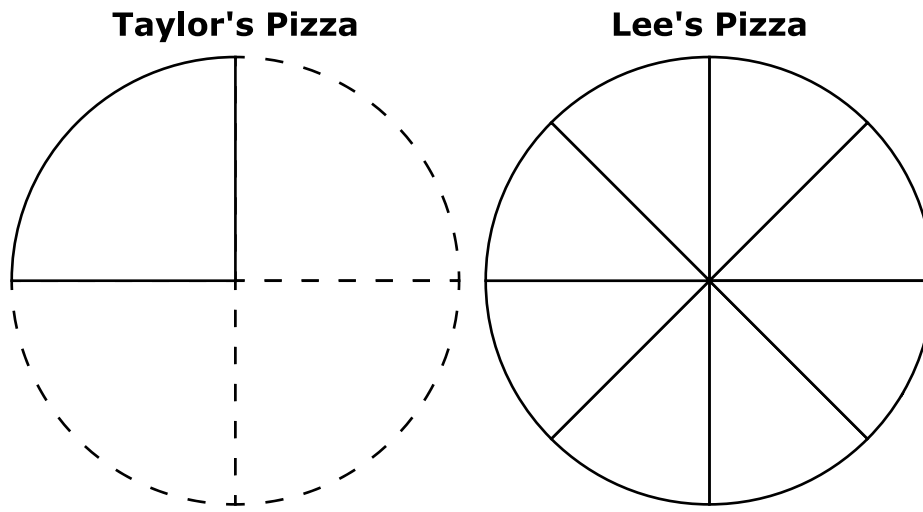
Select **two** answer choices.

- Ⓐ circle
- Ⓑ triangle
- Ⓒ hexagon
- Ⓓ rhombus
- Ⓔ trapezoid

**7.** If  $30 \div \square = 5$ , what is the missing factor?

- Ⓐ 6
- Ⓑ 7
- Ⓒ 25
- Ⓓ 35

8. Taylor and Lee buy two pizzas. Taylor's pizza is cut into 4 slices, while Lee's is cut into 8 slices. Taylor eats 3 slices of her pizza.



If Lee wants to eat the same amount, what fraction of the pizza should he eat?

- Ⓐ  $\frac{3}{8}$
- Ⓑ  $\frac{2}{4}$
- Ⓒ  $\frac{6}{8}$
- Ⓓ  $\frac{8}{4}$



**9.** What number makes the equation true?

$$8 \times \square = 48$$

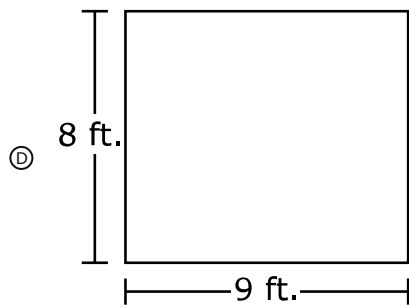
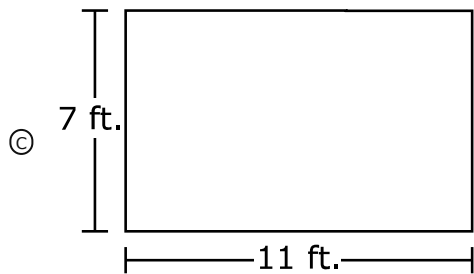
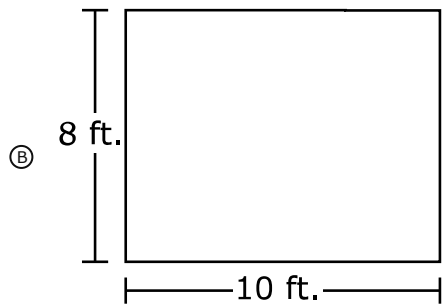
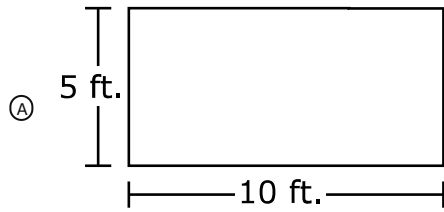
Ⓐ 5

Ⓑ 6

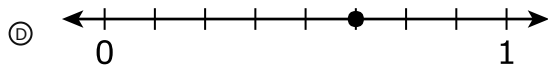
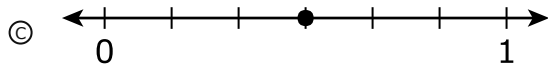
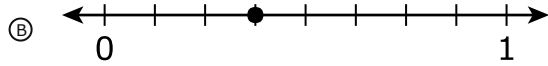
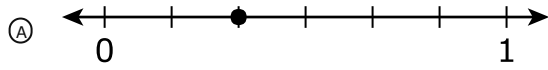
Ⓒ 7

Ⓓ 8

10. Which figure has a perimeter of 30 feet?



11. Which number line shows a point at  $\frac{3}{8}$ ?



12. What is the product of 7 and 2?

Write the answer in the box.

13. The team bus left for the game at 3:40 p.m. The bus arrived at the field 12 minutes later. What time did the bus arrive?

(A) 3:28 p.m.

(B) 3:30 p.m.

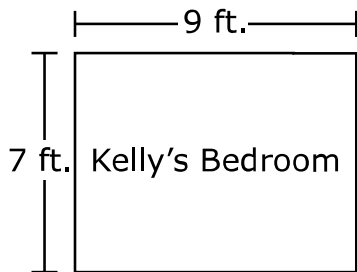
(C) 3:52 p.m.

(D) 3:55 p.m.

14. Select a box in each row to make the statements true.

	Odd	Even
When you add two odd numbers together, the answer is _____.	<input type="radio"/>	<input type="radio"/>
When you add two even numbers together, the answer is _____.	<input type="radio"/>	<input type="radio"/>
When you add an even and an odd number together, the answer is _____.	<input type="radio"/>	<input type="radio"/>

15. Kelly arranged carpet squares on the floor of her bedroom.



What is the area, in square feet, of Kelly's bedroom floor?

- Ⓐ 60 square feet
- Ⓑ 63 square feet
- Ⓒ 70 square feet
- Ⓓ 83 square feet

**16.** Which number rounds to 60?

Ⓐ 48

Ⓑ 55

Ⓒ 65

Ⓓ 67

**17.** Karen is working the multiplication problem shown.

$$19 \times 3 = \square$$

Which expression represents a strategy that Karen would use to calculate her answer?

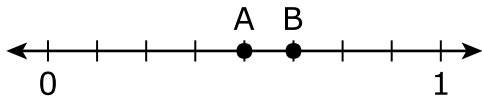
Ⓐ  $(10 + 3) + (9 + 3)$

Ⓑ  $(10 + 9) + (10 + 3)$

Ⓒ  $(10 \times 3) + (9 \times 3)$

Ⓓ  $(10 \times 9) + (10 \times 3)$

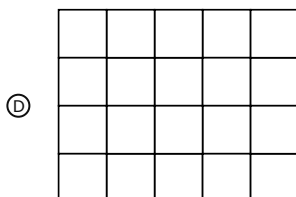
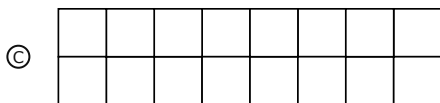
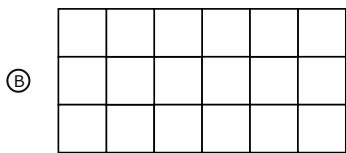
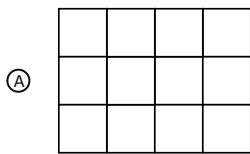
18. A number line is shown.



Select a box in each row to identify if each statement about the number line is true or false.

	True	False
The number line is divided into 8 equal parts.	<input type="radio"/>	<input type="radio"/>
Point B is at $\frac{6}{8}$ .	<input type="radio"/>	<input type="radio"/>
Each section represents $\frac{1}{8}$ of the whole.	<input type="radio"/>	<input type="radio"/>
Point A is at $\frac{4}{8}$ .	<input type="radio"/>	<input type="radio"/>

19. Which figure has an area of 18 square units?



**20.** Joe has \$60 to buy 7 new shirts. If each shirt costs \$8, which equation represents the amount of money ( $m$ ) Joe will have left?

Ⓐ  $60 - 15 = m$

Ⓑ  $60 - 56 = m$

Ⓒ  $60 + 15 = m$

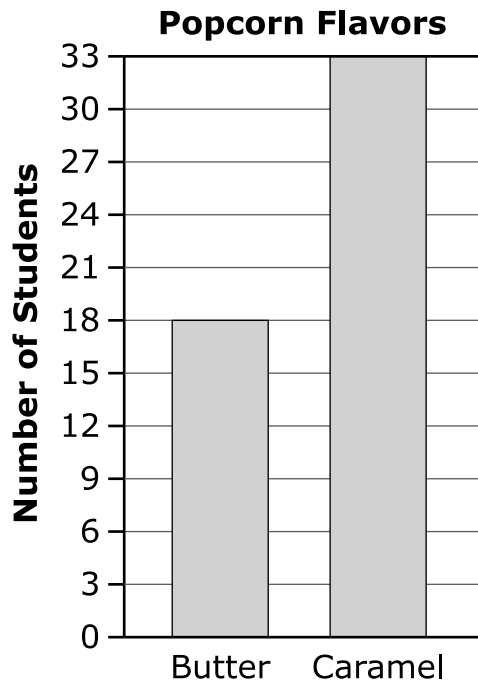
Ⓓ  $60 + 56 = m$

**21.** If Christy bought 9 2-liter bottles of lemonade, how many liters of lemonade did she buy?

Write the answer in the box.

	liters
--	--------

22. A group of students were asked to choose between caramel and butter popcorn flavors. The bar graph shown represents their choices.



How many more students chose caramel popcorn over butter popcorn?

- Ⓐ 15 students
- Ⓑ 16 students
- Ⓒ 25 students
- Ⓓ 51 students



- 23.** A teacher has 56 pencils and wants to put an equal number of pencils in 8 buckets. Which equations can be used to find the number of pencils ( $n$ ) in each bucket?

Select **two** answer choices.

Ⓐ  $56 \div 8 = n$

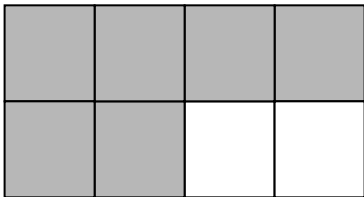
Ⓑ  $56 - 8 = n$

Ⓒ  $56 + 8 = n$

Ⓓ  $8 \times n = 56$

Ⓔ  $8 + n = 56$

- 24.** Which expression describes the shaded area of the rectangle?



Ⓐ  $\frac{1}{6} + \frac{1}{6}$

Ⓑ  $\frac{1}{8} + \frac{1}{8}$

Ⓒ  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

Ⓓ  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

**25.** John had 24 pieces of candy to give his 3 teachers. He gave each teacher the same amount of candy. How many pieces of candy did he give each teacher?

- Ⓐ 6 pieces
- Ⓑ 8 pieces
- Ⓒ 21 pieces
- Ⓓ 27 pieces

**26.** Which equations are true?

Select a box in each row to identify if each equation is true or false.

	True	False
$70 \times 3 = 210$	<input type="radio"/>	<input type="radio"/>
$4 \times 40 = 80$	<input type="radio"/>	<input type="radio"/>
$80 \times 3 = 240$	<input type="radio"/>	<input type="radio"/>
$4 \times 90 = 270$	<input type="radio"/>	<input type="radio"/>
$6 \times 60 = 360$	<input type="radio"/>	<input type="radio"/>

27. The students at North Elementary School set a goal to collect 900 box tops. The table shows the number of box tops already collected by students in two grades.

**Box Tops Collected**

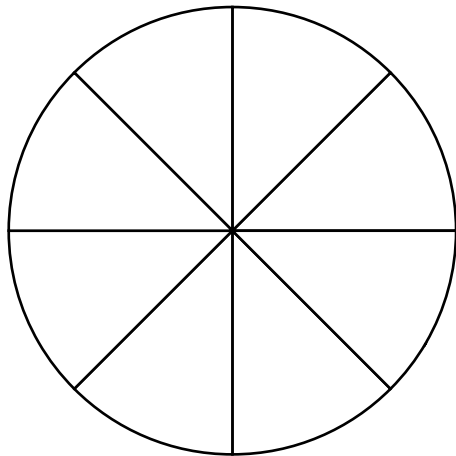
<b>Grade</b>	<b>Number of Box Tops</b>
3	102
4	348

To reach their goal, how many more box tops do the students need to collect?

- Ⓐ 450
- Ⓑ 550
- Ⓒ 652
- Ⓓ 662

28. Billy drew a circle and divided the circle into equal pieces as shown.

**Billy's Circle**



How much does each section of the circle represent?

- Ⓐ  $\frac{1}{8}$
- Ⓑ  $\frac{7}{8}$
- Ⓒ 1
- Ⓓ 8

**29.** A zookeeper needs 876 kilograms of food to feed the animals. She has 287 kilograms of food. How much more food does she need to buy?

Ⓐ 287 kilograms

Ⓑ 589 kilograms

Ⓒ 599 kilograms

Ⓓ 611 kilograms

**30.** What number makes the comparison statement true?

$$\frac{2}{3} = \frac{\square}{6}$$

Write the answer in the box.

**31.** What factor makes the equation  $45 \div \square = 5$  true?

Write the answer in the box.

**32.** Find the difference.

$$501 - 196$$

Ⓐ 305

Ⓑ 314

Ⓒ 405

Ⓓ 495

**33.** Bailey takes \$42 to the movies. She spends \$8 on the movie ticket and \$7 on snacks. How much money does she have left?

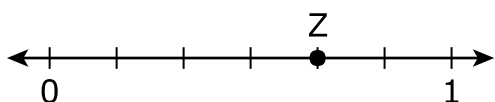
Write the answer in the box.

\$

**34.** Which statement represents the expression  $63 \div 9$ ?

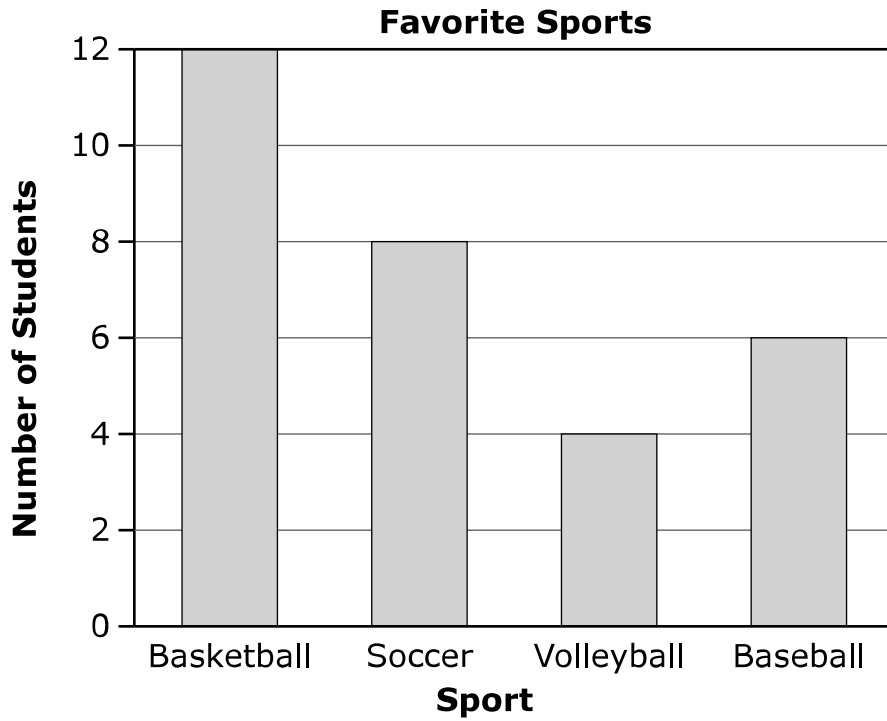
- Ⓐ Riley has 63 coins. He gives his sister 9 coins.
- Ⓑ Riley has 63 coins. His friend Jane gives him 9 coins.
- Ⓒ Riley has 63 coins. He places the same number of coins in each of his 9 containers.
- Ⓓ Riley has 63 coins. He places a different number of coins in each of his 9 containers.

**35.** What fraction represents point  $Z$  on the number line shown?



- Ⓐ  $\frac{1}{4}$
- Ⓑ  $\frac{1}{5}$
- Ⓒ  $\frac{4}{6}$
- Ⓓ  $\frac{6}{4}$

- 36.** A third grade class created a bar graph showing students' favorite sports. For homework, the teacher asked students to create a pictograph using the same data.





Which pictograph represents the data shown in the bar graph?

**Favorite Sports**

Ⓐ

Basketball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Soccer	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Volleyball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Baseball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

= 2 students

**Favorite Sports**

Ⓑ

Basketball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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Volleyball	<input type="checkbox"/> <input type="checkbox"/>
Baseball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

= 2 students

**Favorite Sports**

Ⓒ

Basketball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Soccer	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Volleyball	<input type="checkbox"/> <input type="checkbox"/>
Baseball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

= 2 students

**Favorite Sports**

Ⓓ

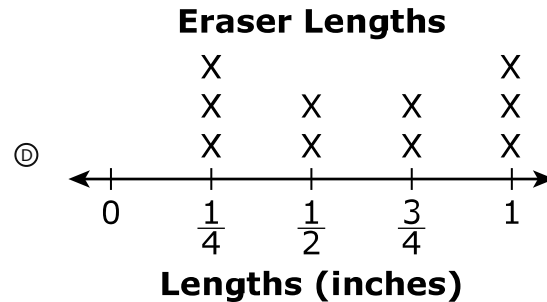
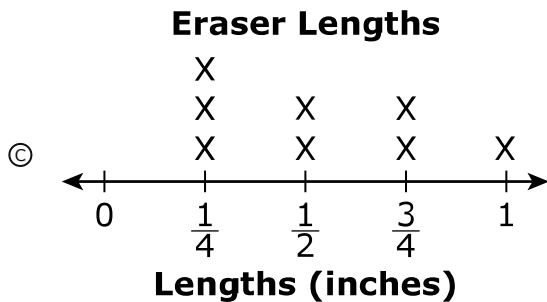
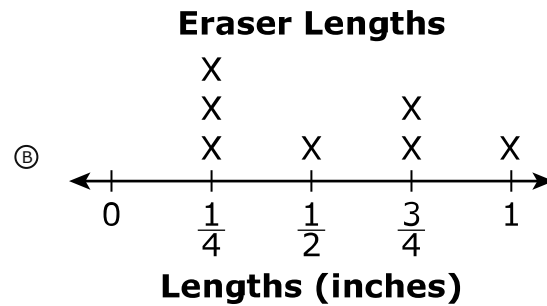
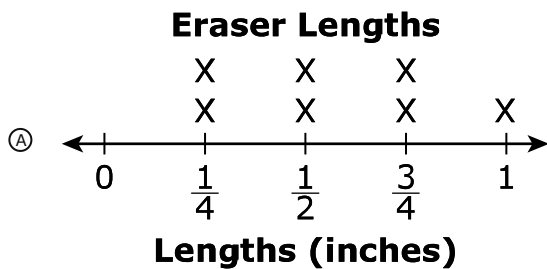
Basketball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Soccer	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Volleyball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Baseball	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

= 2 students

37. Which line plot shows the data in the table?

**Eraser Lengths**

Length (inches)	Number of Students
$\frac{1}{4}$	3
$\frac{1}{2}$	2
$\frac{3}{4}$	2
1	1



38. Find the product.

$$9 \times 6$$

Write the answer in the box.

**39.** Sam is making cookies. It takes 10 minutes to mix the recipe and 30 minutes to bake the cookies. If Sam started making the cookies at 3:30 p.m., what time will the cookies finish baking?

Ⓐ 4:00 p.m.

Ⓑ 4:10 p.m.

Ⓒ 4:30 p.m.

Ⓓ 4:40 p.m.

**40.** Which grouping represents the product 16?

Ⓐ 4 groups with 4 objects each


Ⓑ 4 groups with 7 objects each

Ⓒ 6 groups with 4 objects each

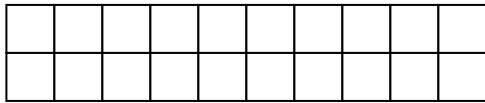
Ⓓ 8 groups with 8 objects each

41. Which figures have an area of 24 square units?

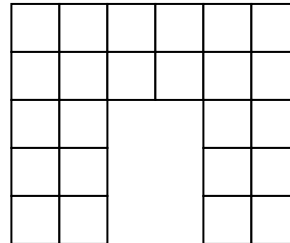
Select **two** answer choices.

 = 1 square unit

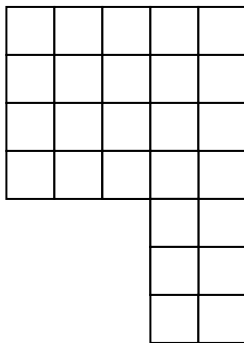
(A)



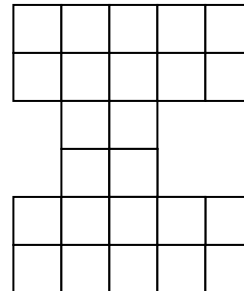
(B)



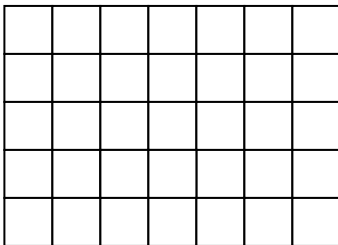
(C)



(D)

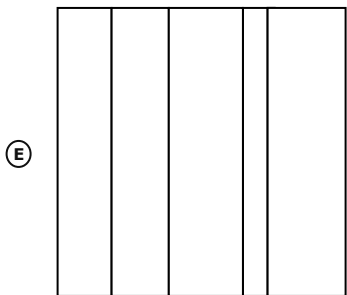
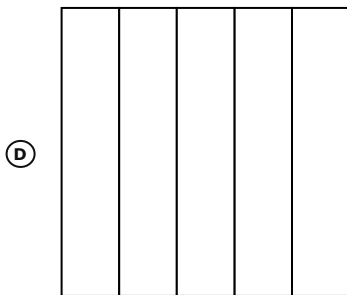
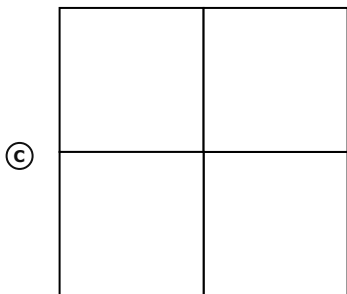
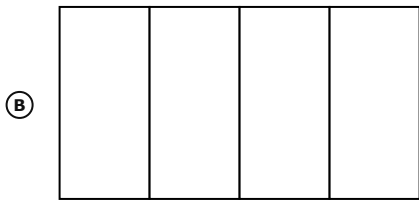
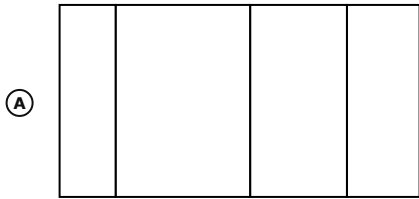


(E)



42. Which shapes show the area of each part as  $\frac{1}{4}$  of the whole?

Select **two** answer choices.



- 43.** The following question has two parts. First, answer Part A. Then, answer Part B.

Zalia ordered 5 pizzas. Each pizza is cut into 8 slices.

**Part A**

How many total slices of pizza does Zalia have?

Write the answer in the box.

slices

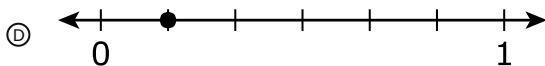
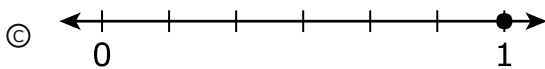
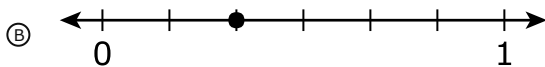
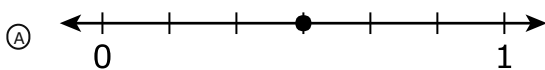
**Part B**

If Zalia wants to share the pizza between herself and 9 friends, how many slices of pizza will each person receive?

Write the answer in the box.

slices

- 44.** Which point is equivalent to  $\frac{1}{2}$  on the number line?



**45.** What number makes the equation true?

$$5 \times \square = 300$$

Ⓐ 6

Ⓑ 10

Ⓒ 30

Ⓓ 60

**46.** Lee created the arithmetic pattern shown.

12, 25, 38, \_\_\_\_\_

Which statement is true about Lee's pattern?

Ⓐ The next number in the pattern will be 41 because 3 is added to the previous number.

Ⓑ The next number in the pattern will be 48 because 10 is added to the previous number.

Ⓒ The next number in the pattern will be 50 because 12 is added to the previous number.

Ⓓ The next number in the pattern will be 51 because 13 is added to the previous number.

- 47.** The following question has two parts. First, answer Part A. Then, answer Part B.

**Part A**

Mrs. Richards has 291 papers on her desk. What is this number rounded to the nearest 10?

Write the answer in the box.

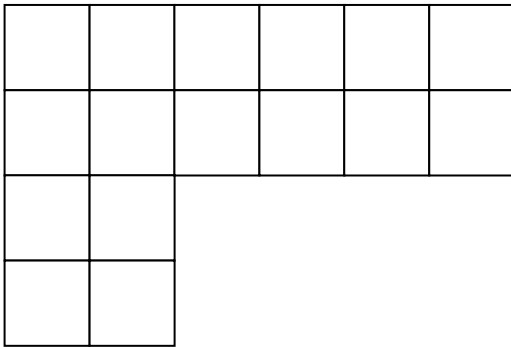
**Part B**


What is 291 rounded to the nearest 100?

Write the answer in the box.



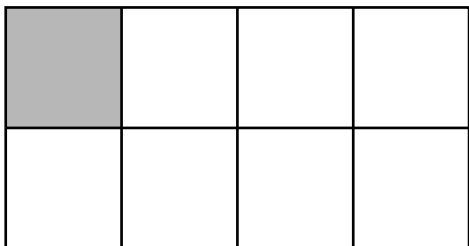
48. The diagram shows the top of a table. What is the area?



 = 1 square foot

- Ⓐ 15 square feet
- Ⓑ 16 square feet
- Ⓒ 20 square feet
- Ⓓ 24 square feet

49. What fraction of this figure is shaded?



(A)  $\frac{1}{8}$

(B)  $\frac{7}{8}$

(C)  $\frac{8}{7}$

(D)  $\frac{8}{1}$

**STOP**

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1 District/School/Class Information	
District Name:	
School Name:	
Classroom/Group Name:	
Date:	

**MARKING DIRECTIONS**

- Use only soft black pencil (No. 2).
- Do NOT use ink pen or felt-tip marker.
- Make heavy, dark marks that completely fill the circle.
- Erase completely any marks you wish to change.
- Make NO stray marks on this answer document.

**SAMPLE MARKS**

**RIGHT** ○ ● ○ ○

**WRONG** ⊗ ⊗ ⊗ ⊗

2 Student Name																								
Last Name												First Name								MI				
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	1				
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○				
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A				
B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B				
C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C				
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E				
F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F				
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G				
H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				
I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I				
J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J				
K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K				
L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L				
M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M				
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N				
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O				
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q				
R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S				
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T				
U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V				
W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W				
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z				

3 State ID Number									
0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
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4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

4 Birth Date		
Month	Day	Year
○ Jan		
○ Feb		
○ Mar	○ 0	○ 19
○ Apr	○ 1	○ 20
○ May	○ 2	○ 1
○ Jun	○ 3	○ 2
○ Jul	○ 3	○ 3
○ Aug	○ 4	○ 4
○ Sep	○ 5	○ 5
○ Oct	○ 6	○ 6
○ Nov	○ 7	○ 7
○ Dec	○ 8	○ 8
	○ 9	○ 9

▼

ALIGN TOP OF LABEL HERE

If student barcode labels are being used,  
position label WITHIN the dotted lines.

▼

## Grade 3 Math Practice Test Paper-Pencil Answer Key Document

Sequence	Key	Standard	Possible Points
1	B, E	3.OA.1	1
2	B	3.NBT.2	1
3	A, C	3.NF.1	1
4	3, 5, 10, 16	3.OA.1	1
5	B	3.MD.7d	1
6	D, E	3.G.1	1
7	A	3.OA.6	1
8	C	3.NF.3a	1
9	B	3.OA.4	1
10	A	3.MD.8	1
11	B	3.NF.2b	1
12	14	3.OA.7	1
13	C	3.MD.1	1
14	2, 4, 5	3.OA.9	1
15	B	3.MD.7b	1
16	B	3.NBT.1	1
17	C	3.OA.5	1
18	1, 4, 5, 7	3.NF.2	1
19	B	3.MD.5b	1
20	B	3.OA.8	1
21	18	3.MD.2	1
22	A	3.MD.3	1
23	A, D	3.OA.3	1
24	D	3.NF.1	1
25	B	3.OA.3	1
26	1, 4, 5, 8, 9	3.NBT.3	2
27	A	3.OA.8	1
28	A	3.G.2	1
29	B	3.MD.2	1
30	4	3.NF.3b	1
31	9	3.OA.6	1
32	A	3.NBT.2	1
33	27	3.OA.8	1
34	C	3.OA.2	1
35	C	3.NF.2b	1
36	C	3.MD.3	1
37	C	3.MD.4	1
38	54	3.OA.7	1

**Grade 3 Math Practice Test  
Paper-Pencil Answer Key Document**

39	B	3.MD.1	1
40	A	3.OA.1	1
41	B, D	3.MD.6	1
42	B, C	3.G.2	1
43	40, 4	3.OA.3	2
44	A	3.NF.3a	1
45	D	3.NBT.3	1
46	D	3.OA.9	1
47	290, 300	3.NBT.1	2
48	B	3.MD.6	1
49	A	3.G.2	1