3rd Grade Illinois Readiness Assessment Practice Test

Practice Test Grade 3

Grade 3

Questions

Name: ....   Class: ....

Date: ....   Score: ....

Unit 1 - No Calculator
8 questions

**1** Which two statements can be represented by the the expression 3 x 8.

A. A teacher puts 3 desks in groups of 8.

B. There are 3 birds in a tree. Then, 8 more join them in the tree.

C. Jill buys 3 red balloons and 8 blue balloons.

D. There are 3 rows of chairs, with 8 chairs in each row.

E. Toni has 8 marbles and gives 3 of them away to his friends.

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2 Each model represents one whole divided into equal parts. Select the three models that represent $\frac{1}{4}$.
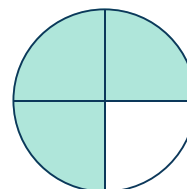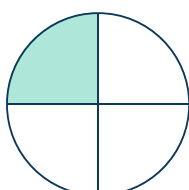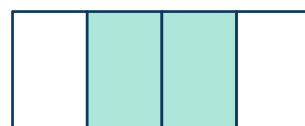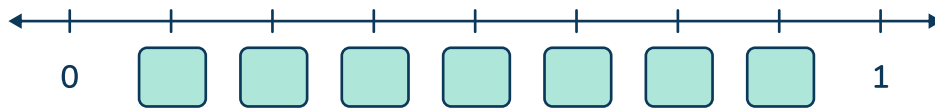
A.
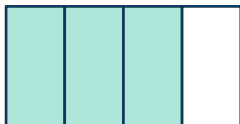
D.
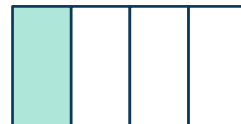
B.

E.

C.

F.

3 Place the number $\dfrac{5}{8}$ on the number line.

4 Brenda is finding the quotient of 24 ÷ 3. She says "the answer is 21 because addition is the opposite of division and 3 + 21 = 24.

PART A:

Identify the incorrect reasoning in Brenda's statement
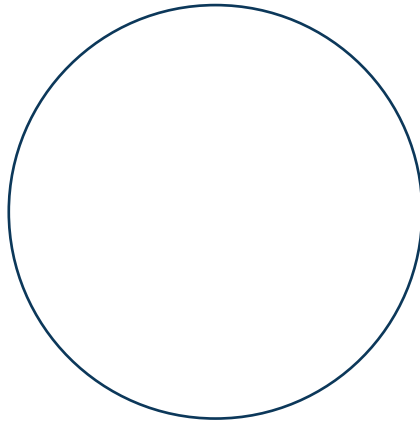
✎ Answer

PART B:

Show or explain how Brenda can correct her reasoning, then find the quotient when 24 is divided by 3.

✎ Answer

5   Use the circle below represent the fraction $\frac{1}{8}$.

6   Kelly is making cupcakes.

- It takes 6 minutes to mix the batter.
- The cupcakes bake for 15 minutes.
- The cupcakes then cool for 4 minutes.

What is the total amount of time, in minutes, Kelly spends mixing, baking, and cooling the cupcakes?

Answer:_____

7 Enter your answers on the spaces provided:

6 x 9 = _____

35 ÷ 7 = _____

56 ÷ 8 = _____

8 x 9 = _____

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8 Donny needs to put 14 chairs from classroom 1 and 18 chairs from classroom 2 into even rows in the library.

PART A:

Use the grid to shade in an appropriate array to represent the chairs in the library.
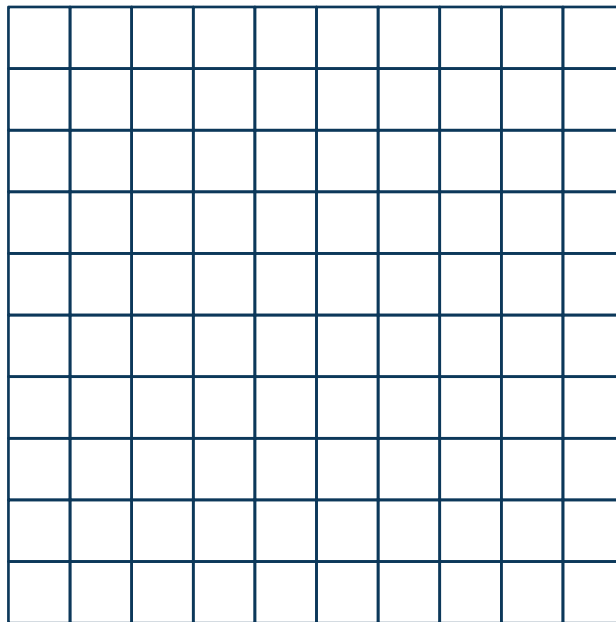
PART B:

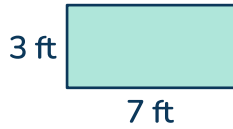Find the area of the array you shaded. Explain your answer using an equation or equations.

✎ Answer

1 Find the area of each rectangle:

3 ft [   ]   3 ft [   ]   4 ft [   ]
    7 ft   8 ft   9 ft
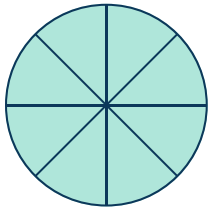
Area = _____   Area = _____   Area = _____

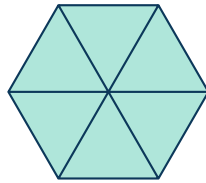**2** Lucas collects 7 marbles each day. This creates a pattern of 7, 14, 21, ...

How many marbles will Lucas have at the end of the eighth day?
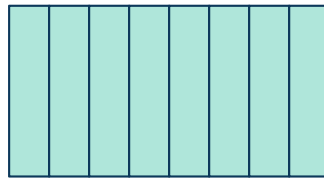
A. 28
B. 63
C. 56
D. 49

3 Select the three models that can represent $\frac{1}{8}$ the area of the whole shape?
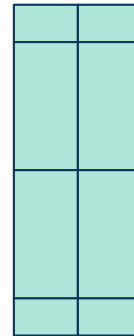
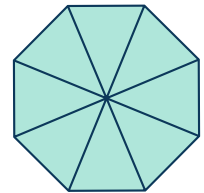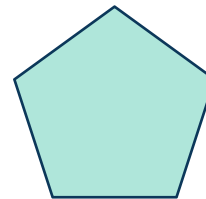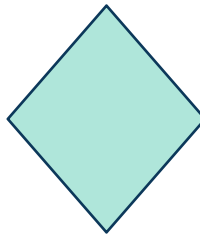| A	B	C	D	E

4 Which group of shapes only has quadrilaterals?

A.
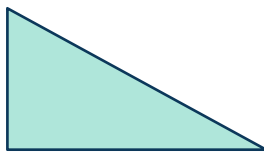
B.
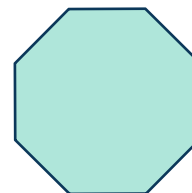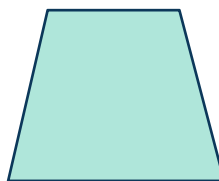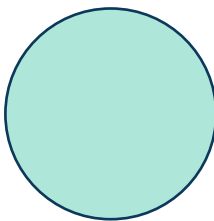
C.
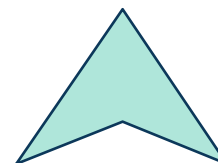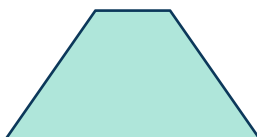
D.
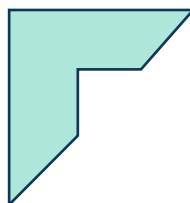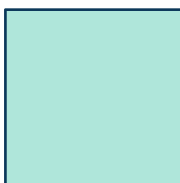
5 Enter your answer on the space.

614 + _____ = 639

---

6 What number makes the equations true?

8 × _____ = 64

64 ÷ 8 = _____

A. 6

B. 8

C. 9

D. 7

7 Select the fraction that is larger than $\frac{2}{3}$?

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

    B. $\frac{4}{6}$

    C. $\frac{3}{4}$

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

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8 Use the information in the graph below to answer the questions.

Animal Shelter Pet Adoptions
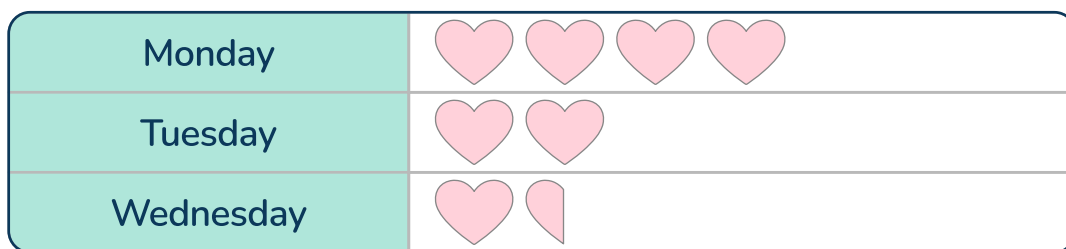
$\heartsuit$ = 4 pet adoptions

PART A:

What is the total number of pet adoptions on Monday, Tuesday, and Wednesday?

    A. 8

    B. $6\frac{1}{2}$

    C. 32

    D. 30

PART B:

How many more pet adoptions were there on Monday than Tuesday and Wednesday?

✎ Answer

9 Khaled circles the products of 6 in red and shades the products of 3 in blue. Which statements about the products are true? Select all the correct answers.

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

A. The products of 6 are always even

B. The products of 3 are always odd

C. All products of 6 are also products of 3

D. All products of 3 are also products of 6

E. Half a product of 6 is always a product of 3

10 Brandon and Andrea are setting up tables for the party. The rectangles below represent the tabletops.

Table 1   2 ft
6 ft

Table 2   4 ft
5 ft

Table 3   3 ft
4 ft

Table 4   3 ft
6 ft
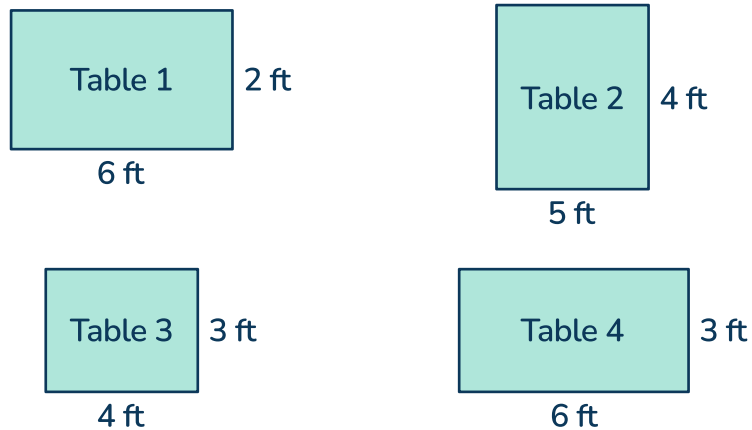
PART A:

Identify two tabletops with the same area.

> ✏ Answer

PART B:

The image below shows the table 3 and table 4 placed together to make a larger table.

3 ft   Table 3   Table 4
4 ft   6 ft
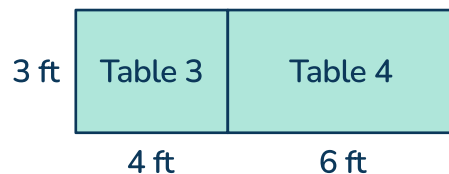
Brandon uses the expression 3 × (4 + 6) to find the area of the new large tabletop.

Andrea uses the equation (3 × 4) + (3 × 6) to find the total area of the new large tabletop.

Find the area of the new large tabletop and explain why both Brandon and Andrea are correct.

> ✏ Answer

11 What is 5,372 rounded to the nearest hundred?

A. 5,400

B. 5,300

C. 5,000

D. 5,370

12 What is the length of the pencil in inches?
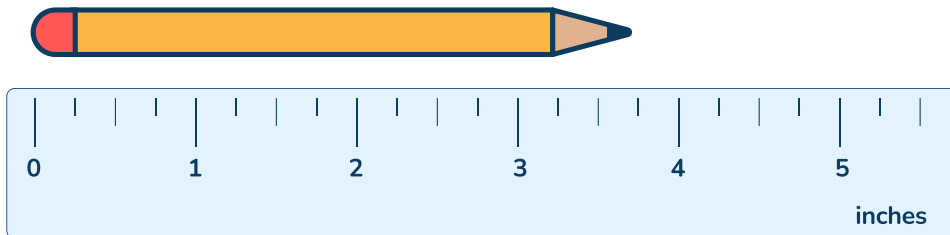
A. $3\frac{3}{4}$ inches

B. 3 inches

C. 4 inches

D. $3\frac{1}{2}$ inches

1   Select two fractions that are equivalent to the fraction value on the number line.

A. $\dfrac{1}{4}$

B. $\dfrac{3}{8}$

C. $\dfrac{2}{8}$

D. $\dfrac{1}{3}$

E. $\dfrac{2}{6}$

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2   Neela has three turtles. Each turtle eats 3 ounces of food each day. Neela has 54 ounces of turtle food. How many more days can Neela feed her turtles with the food she has?

A. 6 days

B. 18 days

C. 9 days

D. 45 days

3   Find the missing number. Place your answer in the box provided.

$$519 + \boxed{} = 532$$

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4   Write the answer on the space provided.

$6 \times 70=$ _____

5   On Monday Ivan read 17 pages in his book. For the next 4 days, Ivan will read 14 pages each day. At the end of the week, how many total pages will Ivan have read in total?

🖉 Answer

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6   What time is shown on the clock? Write the answer on the space provided.

Answer:_____

7 At a factory, there is a large storage tank for diesel.

Part A:

In a particular week in January, the factory uses 70 liters of gasoline per day.
What is the total amount of gasoline, in liters, used at the factory in the 7 days.

> ✎ Answer

Part B:

The storage tank can hold a total of 800 liters of gasoline when it is full.
During the first 4 days in February after the tank was filled completely, 282 liters of gasoline was used.
What is the amount of gasoline, in liters, that remains in the tanks after those 4 days?

> ✎ Answer

8 Select the three comparisons that are true.

A. $\dfrac{1}{2} > \dfrac{1}{3}$
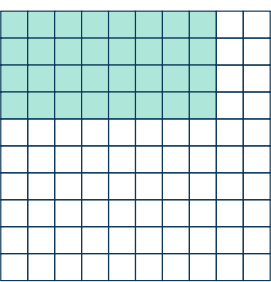
B. $\dfrac{3}{3} < \dfrac{2}{3}$

C. $\dfrac{3}{6} > \dfrac{1}{2}$

D. $\dfrac{2}{3} = \dfrac{4}{6}$

E. $\dfrac{2}{6} = \dfrac{1}{3}$

Answer Key - Unit 1

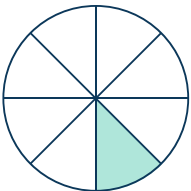| Item number	Correct answer	Standard(s)	DOK
1	A, D	**3.OA.A.1**	DOK 2
2	B, C, D	**3.NF.A.1**	DOK 2
3		**3.NF.2.a**	DOK 2
4	**Part A:** The incorrect reasoning is that addition is not the opposite of division. Multiplication is the opposite of division. **Part B:** Multiplication is the opposite of division. $24 \div 3 = 8$ and $3 \times 8 = 24$	**3.OA.B.6**	DOK 3
5		**3.NF.A.1**	DOK 2
6	25 minutes	**3.OA.D.8**	DOK 1
7	$6 \times 9 = 54$ $35 \div 7 = 5$ $56 \div 8 = 7$ $8 \times 9 = 72$	**3.OA.A.1** **3.OA.A.2**	DOK 1
8	Part A: Possible answer: 4 rows by 8 columns Part B: In total, there are 32 chairs in the library. 48=32	**3.OA.A.3**	DOK 3

Answer Key - Unit 2

Item number	Correct answer	Standard(s)	DOK
1	Area = 21 square feet Area = 24 square feet Area = 36 square feet	3.MD.C.7a	DOK 1
2	C	3.OA.D.8	DOK 1
3	A, C, E	3.NF.A.1	DOK 2
4	C	3.G.A.1	DOK 1
5	25	3.NBT.A.2	DOK 1
6	B	3.OA.A.4	DOK 2
7	C	3.NF.A.3	DOK 2
8	**Part A:** D **Part B:** Monday: 16 adoptions Tuesday and Wednesday: 14 adoptions 16 - 14 = 2 2 more adoptions	3.MD.B.3	DOK 3
9	A, C, E	3.OA.A.3	DOK 2
10	**Part A:** Tabletop 1 and tabletop 3 both have an area of 12 square feet **Part B:** They are both correct because the answer is the same and you can either find the areas separately and add them or view it as one large rectangle with dimensions 3 x 10. 3 x (4 + 6) 3 x 10 = 30 square feet (3 x 4) + (3 x 6) 12 + 18 = 30 square feet	3.MD.C.7	DOK 3
11	A	3.NBT.A.1	DOK 1
12	A	3.MD.A.2	DOK 1

Answer Key - Unit 3

Item number	Correct answer	Standard(s)	DOK
1	A, C	**3.NF.A.3**	DOK 2
2	A	**3.OA.A.3**	DOK 2
3	13	**3.NBT.A.2**	DOK 2
4	420	**3.NBT.A.3**	DOK 1
5	73 pages	**3.OA.D.8**	DOK 2
6	12:20	**3.MD.A.1**	DOK 1
7	**Part A:** 490 liters **Part B:** 518 liters	**3.NBT.A.3** **3.OA.D.8**	DOK 3
8	A, D, E	**3.NF.A.3**	DOK 2

Breakdown of Assessment by domain				
Operations and Algebraic thinking (OA)	Number and Operations in Base Ten (NBT)	Number and Operations - Fractions (NF)	Measurement and Data (MD)	Geometry (G)
40%	17%	23%	17%	3%

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