



THIRD SPACE
LEARNING

3rd Grade Indiana State Practice Math Test

Indiana Practice Test Grade 3

Grade 3

Questions

Name:

Class:

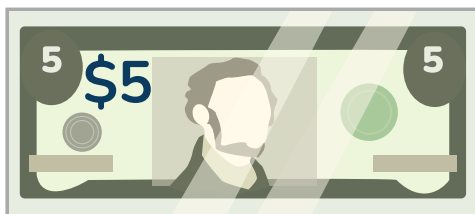
Date:

Score:

- 1 A zoo has 6 bears. Each bear has 4 legs. Each leg has a foot with 5 toes. Which equation shows the total number of legs?

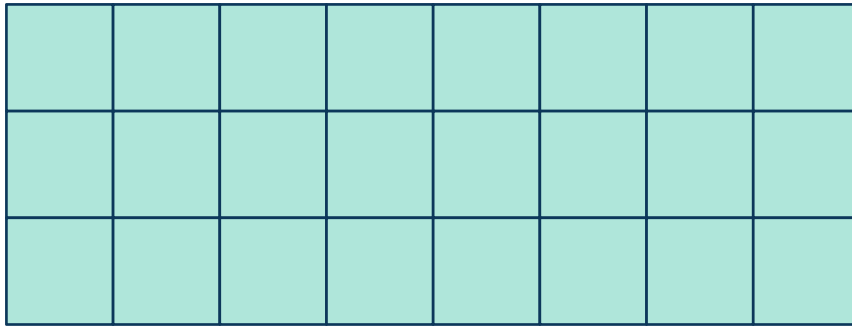
- A. 6×4
- B. 4×5
- C. 5×6
- D. 6×6

- 2 A bag of popcorn at the movies costs 7 dollars and 13 cents. Do you have enough money to buy it?



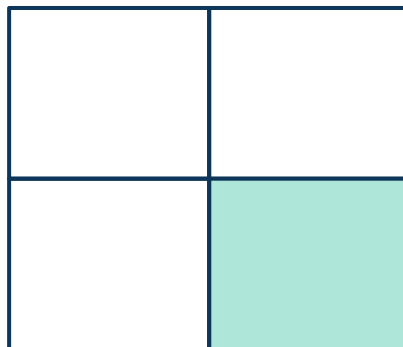
- A. Yes, because the total amount of money shown is \$7.13.
- B. Yes, because the total amount of money shown is \$7.25.
- C. No, because the total amount of money shown is \$7.08.
- D. No, because the total amount of money shown is \$6.28.

- 3 What is the area of the rectangle?



- A. 24 units
- B. 24 square units
- C. 16 units
- D. 16 square units

4



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

- A. $\frac{1}{2}$
- B. $\frac{1}{4}$
- C. $\frac{1}{6}$
- D. $\frac{1}{8}$

5 $6 \times 80 = a$

What is the value of a ?

- A. 480
- B. 130
- C. 510
- D. 48









6 Which equations below are true? Select all the correct answers.

- A. $305 + 212 + 409 = 926$
- B. $197 + 369 + 316 = 872$
- C. $219 + 256 + 288 = 775$
- D. $357 + 401 + 236 = 994$
- E. $431 + 251 + 116 = 788$

7 Which fraction is larger than $\frac{2}{3}$?

- A. $\frac{1}{2}$
- B. $\frac{5}{6}$
- C. $\frac{1}{4}$
- D. $\frac{4}{8}$

8 Animal Shelter Pet Adoptions

Dogs	   
Cats	 
Hamsters	 

 = 4 pet adoptions

How many more dogs were adopted than cats and hamsters?

- A. 8
- B. $\frac{1}{2}$
- C. 4
- D. 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

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

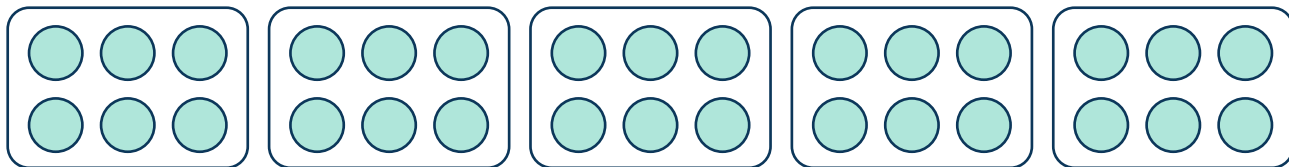
- A. All products of 3 are also products of 6
- B. The products of 6 are always even
- C. Half a product of 6 is always a product of 3
- D. The products of 3 are always odd
- E. All products of 6 are also products of 3

10

Sophia is organizing a school fundraiser. She started with 1,275 raffle tickets. She sold 436 tickets on the first day and 589 tickets on the second day. How many tickets does she have left to sell?

- A. 250 tickets
- B. 320 tickets
- C. 850 tickets
- D. 876 tickets

11



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

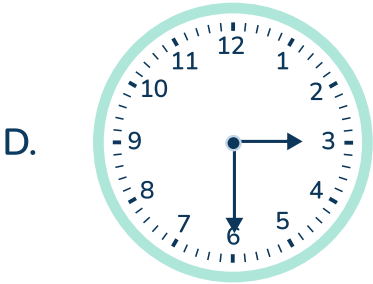
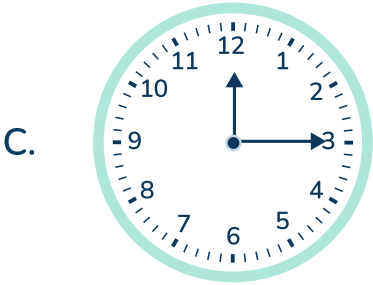
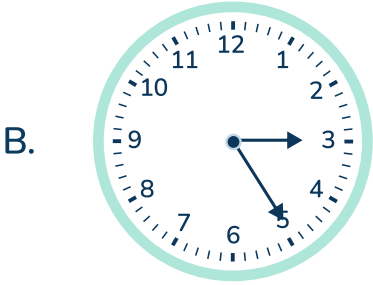
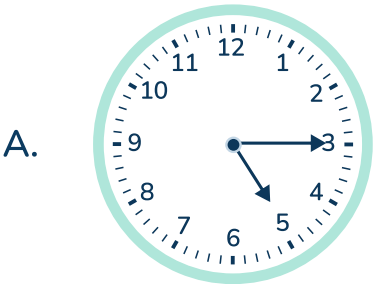
- A. There are 5 packs of cookies. Each pack has 6 cookies. How many cookies are there in total?
- B. Pablo scored 5 points and then 6 more points. How many points did he score in total?
- C. There are 5 chapters. Each chapter has 30 pages. How many pages does one chapter have?
- D. There are 6 trees. Each tree has 30 leaves. How many leaves are there in total?
- E. There are 30 ounces of dog food. Paco eats 6 ounces of food a week. How many weeks can Paco be fed?

12

What is 3,097 rounded to the nearest hundred?

- A. 3,197
- B. 3,010
- C. 3,000
- D. 3,100

13 Which clock reads 3:25?



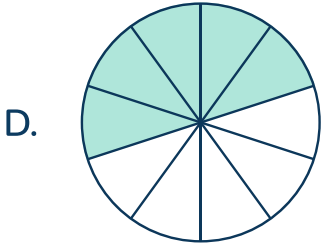
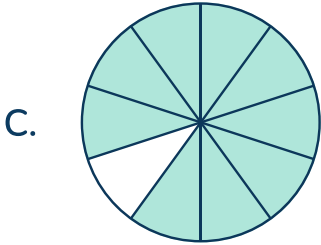
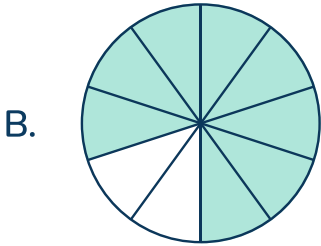
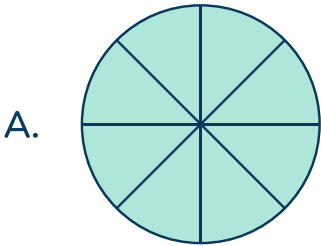
- 14 Which number line correctly shows the fraction $\frac{1}{3}$?



-
- 15 Which is the best estimate for the weight of a bag of dog food?

- A. 150 grams
- B. 1 kilogram
- C. 1 gram
- D. 15 kilograms

16 Which shape correctly completes the comparison?



17 Complete the sentence: A quadrilateral and square both *always* have...

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

18 Chloe has 24 meters of fence. What are the possible dimensions for a rectangular garden that Chloe can completely fence in? Select all the correct answers.

- A. 10 meters by 2 meters
- B. 9 meters by 9 meters
- C. 6 meters by 6 meters
- D. 12 meters by 2 meters
- E. 4 meter by 8 meters

19 Which equation can help you solve $30 \div 6 = \triangle$?

A. $\triangle \div 6 = 30$

B. $\triangle \times 30 = 6$

C. $6 \times \triangle = 30$

D. $6 \div \triangle = 30$

20 Solve $523 - 368$.

A. 155

B. 245

C. 145

D. 208

21



What is the missing value?

A. 0

B. $\frac{6}{3}$

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

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

22

A bakery has 56 donuts. They will be placed into 8 separate boxes. Each box has the same amount of donuts. Which equation can be used to find the number of donuts in each box?

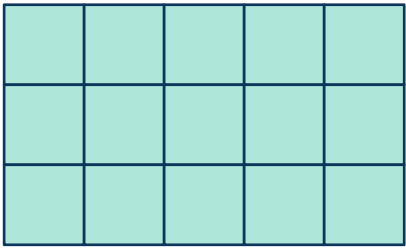
A. $56 \times 8 = ?$

B. $56 - 8 = ?$

C. $56 + 8 = ?$

D. $56 \div 8 = ?$

23 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. $3 + 5$
- B. $3 + 3 + 3 + 3 + 3$
- C. $3 + 5 + 3 + 5$
- D. 3×5
- E. $5 + 5 + 5$

24 Which group of shapes only has quadrilaterals?

A.

A right triangle with a horizontal base and a vertical height.

A rhombus, which is a quadrilateral.

A regular pentagon, which is a pentagon.

B.

A circle.

A trapezoid, which is a quadrilateral.

A regular octagon, which is an octagon.

C.

A trapezoid, which is a quadrilateral.

A parallelogram, which is a quadrilateral.

A concave pentagon, which is a pentagon.

D.

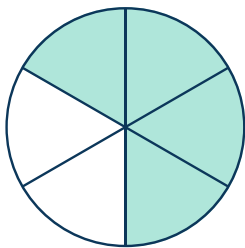
A square, which is a quadrilateral.

A concave hexagon, which is a hexagon.

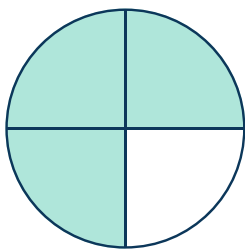
A rectangle, which is a quadrilateral.

25 Which shapes shows a shaded amount equivalent to $\frac{3}{4}$?

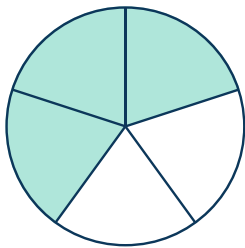
A.



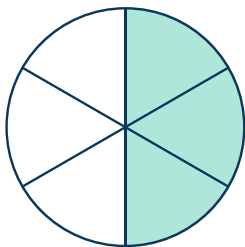
B.



C.



D.

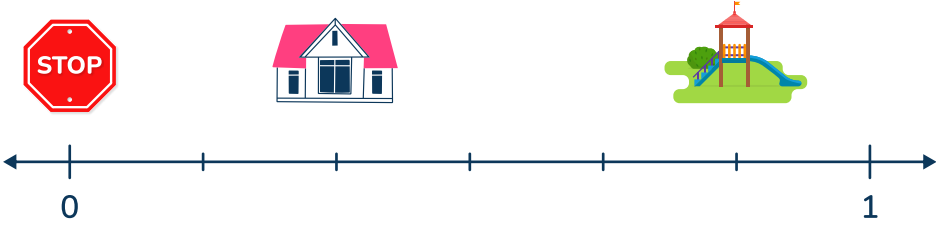


- 26 Main street is a 1 mile street. The library is $\frac{2}{6}$ of a mile from the stop sign. There is a park $\frac{5}{6}$ of a mile from the stop sign. Which number line correctly shows the library and the park?

A.

Library

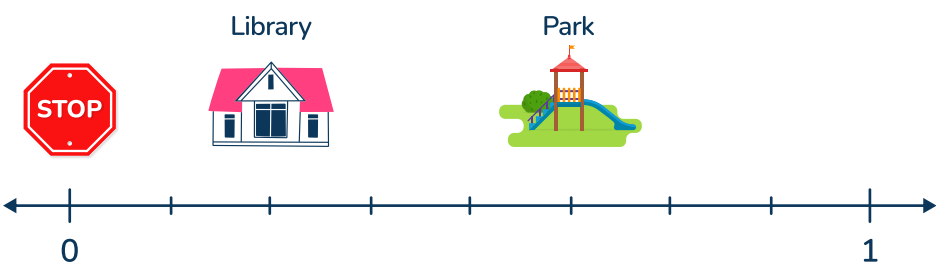
Park



B.

Library

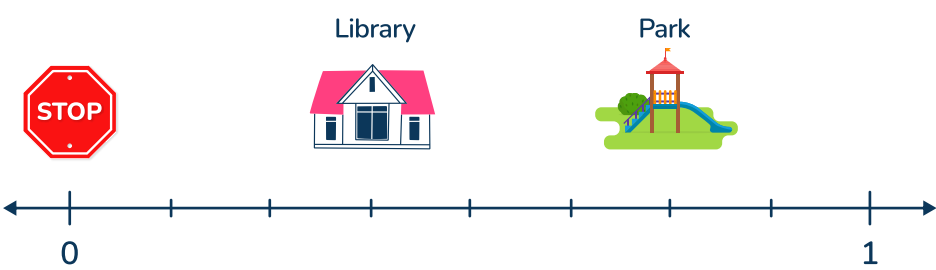
Park



C.

Library

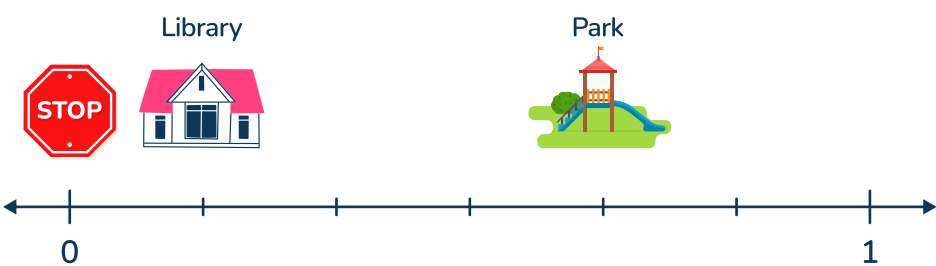
Park



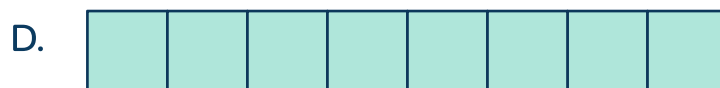
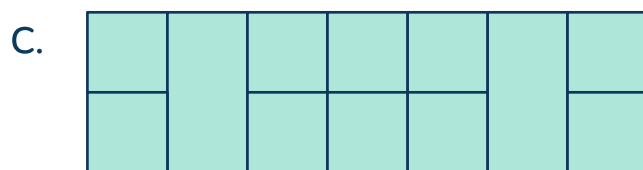
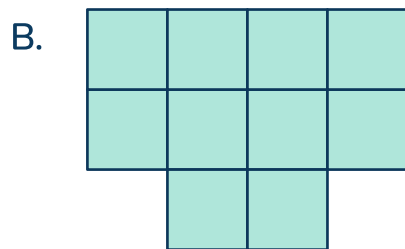
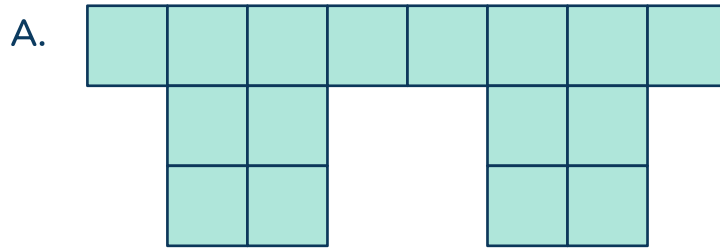
D.

Library

Park



27 Which shape has an area of 16 units?



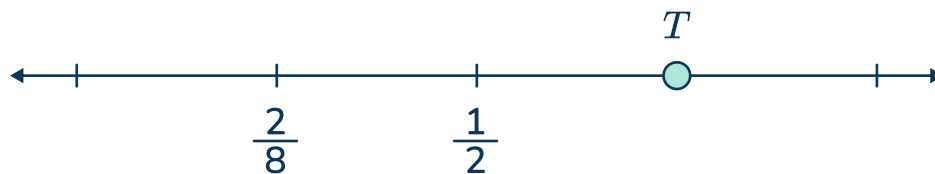
28 Which equation is equivalent to 7×4 ? Select all the correct answers.

- A. $7 + (2 + 2)$
- B. $2 \times 2 \times 7$
- C. $(2 \times 7) + (2 \times 7)$
- D. $4 \times (6 + 1)$
- E. $(7 + 2) \times (2 + 2)$

- 29 A farmer has 3 containers of horse feed. Each container has 32 pounds of feed. How many pounds of horse feed in total does the farmer have?

A. 29 grams
B. 96 grams
C. 35 grams
D. 84 grams

30



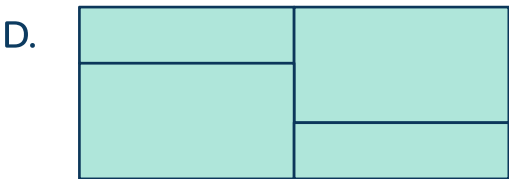
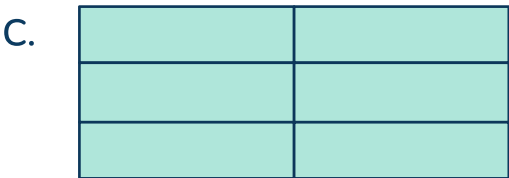
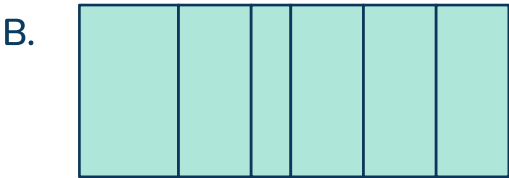
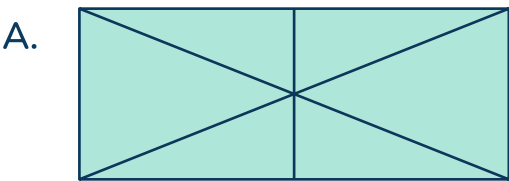
Which fraction shows point T?

A. $\frac{4}{8}$
B. $\frac{6}{8}$
C. $\frac{5}{6}$
D. $\frac{3}{4}$

31 Jagger works on his science fair project for 45 minutes and then watches videos on his computer for 26 minutes. Then he eats dinner for 22 minutes. If he finishes dinner at 7:15pm, what time did Jagger start his work on his project?

- A. 5:42 pm
 - B. 6:28 pm
 - C. 6:15 pm
 - D. 5:38 pm
-

32 Which rectangle is divided into 6 equal parts?



33 Each bag has 6 dodgeballs. There are 78 dodgeballs in all. How many bags are there?

- A. 98 bags
 - B. 13 bags
 - C. 84 bags
 - D. 9 bags
-

34 How can you arrange 20 buttons in equal rows? Select all the correct answers.

- A. 3 rows of 8
 - B. 10 rows of 2
 - C. 20 rows of 2
 - D. 4 rows of 5
 - E. 2 rows of 12
-

35 Which context can be represented by $36 \div 4$?

- A. There were 36 cookies. Then Becca ate 4 cookies.
- B. There were 4 cookies and Becca made 36 more.
- C. Becca has 4 bags. She puts 36 cookies equally into the bags.
- D. Becca made 36 cookies. She made 4 times as many cookies as Frank.

Standard: 3.DA.1

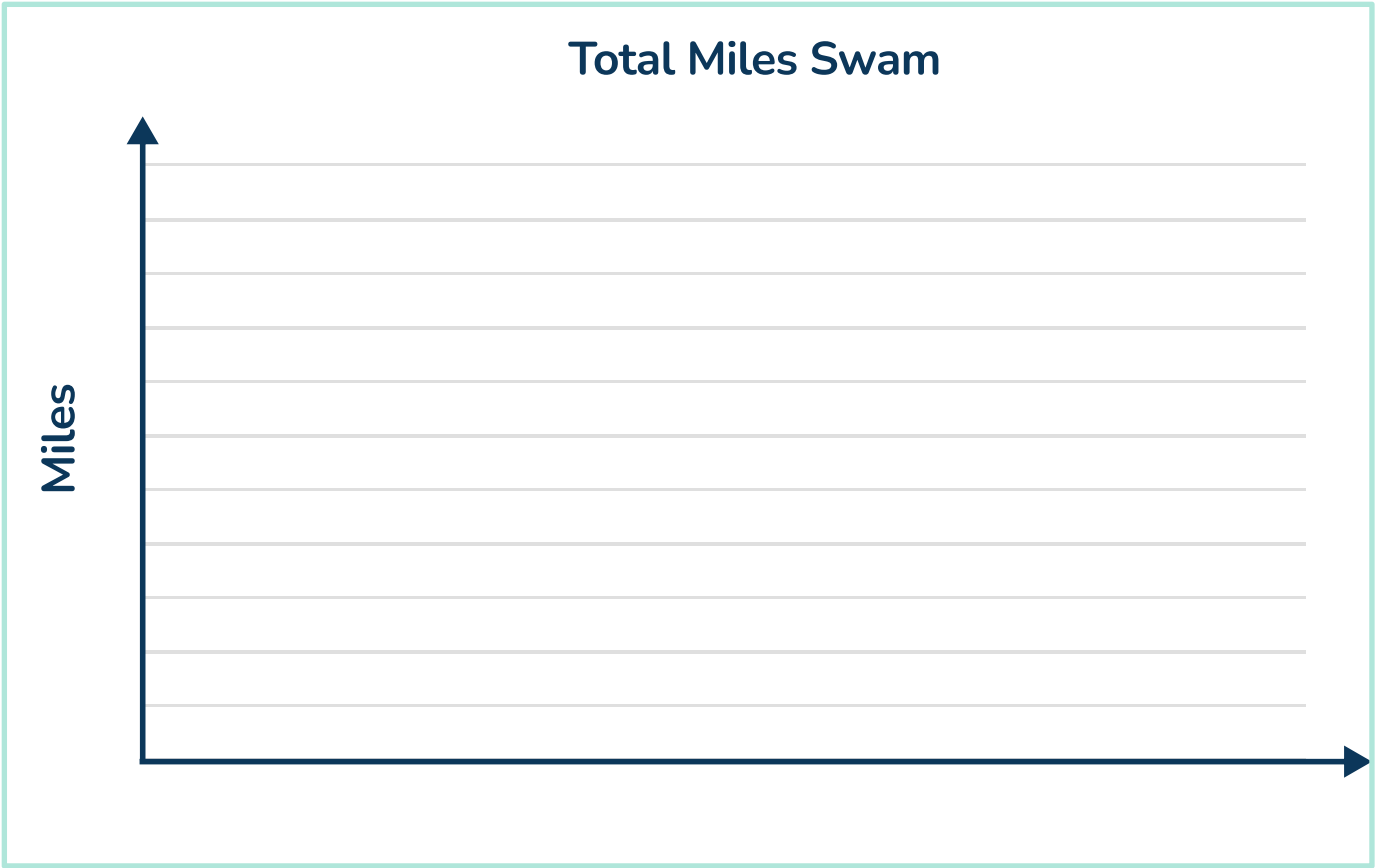
DOK 3

Short Answer Response - 2 points

- 36
- The members of the Ignite Swim Team compared how many miles they swam at their swim meets this season.

Total miles swam	
Name	Miles
Candice	12
Parker	8
Louise	9
Carter	6

Use the data in the table to complete the bar graph below.

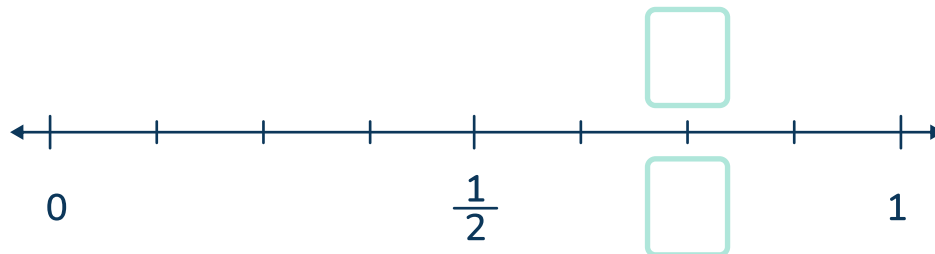


Standard: 3.NS.3, 3.NS.4

DOK 3

Extended Response - 4 points

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



PART B: Show where the fraction $\frac{3}{3}$ belongs on the number line. Explain how you solved.

Answer Key - Multiple Choice

Item number	Correct answer	Standard(s)	DOK	Level of Priority
1	A	3.CA.3	DOK 2	Essential
2	C	3.M.4	DOK 2	Essential
3	B	3.M.5	DOK 1	Essential
4	B	3.NS.2, 3.G.3	DOK 2	Essential
5	A	3.CA.6	DOK 1	Standard
6	A, D	3.CA.2	DOK 2	Essential
7	B	3.NS.5	DOK 1	Essential
8	D	3.DA.1	DOK 2	Essential
9	B, C, E	3.CA.8	DOK 2	Standard
10	A	3.CA.2	DOK 2	Essential
11	A, E	3.CA.7	DOK 2	Essential
12	D	3.NS.6	DOK 1	Standard
13	B	3.M.3	DOK 1	Essential
14	C	3.M.2, 3.NS.3	DOK 1	Standard
15	D	3.M.1	DOK 2	Essential
16	D	3.NS.5	DOK 2	Essential
17	B	3.G.1	DOK 2	Standard
18	A, C, E	3.M.6	DOK 2	Standard
19	C	3.CA.4	DOK 1	Essential

Indiana State Practice Math Test | Grade 3 | Answers

Item number	Correct answer	Standard(s)	DOK	Level of Priority
20	A	3.CA.3	DOK 2	Standard
21	B	3.M.4	DOK 2	Standard
22	D	3.CA.4	DOK 1	Essential
23	B, D, E	3.M.5, 3.CA.3	DOK 2	Essential
24	C	3.G.1	DOK 1	Standard
25	B	3.NS.4	DOK 1	Standard
26	A	3.NS.3	DOK 2	Essential
27	A	3.M.5	DOK 1	Essential
28	B, C, D	3.CA.5	DOK 2	Essential
29	B	3.M.1	DOK 1	Essential
30	B, D	3.NS.3	DOK 1	Essential
31	A	3.M.3	DOK 2	Essential
32	C	3.G.3	DOK 1	Standard
33	B	3.CA.7	DOK 1	Essential
34	B, D	3.CA.3	DOK 1	Essential
35	C, D	3.CA.4	DOK 1	Essential
36	Short answer response	3.DA.1	DOK 3	Essential
37	Short answer response	3.NS.3, 3.NS.4	DOK 3	Essential

Indiana State Practice Math Test | Grade 3 | Rationale

Item	KEY	Rationale
37	2 points	Student correctly creates a scale on the bar graph and records each swimmer's correct miles.
	1 point	Student creates a scale on the line plot and records each swimmer's miles, making 1 or 2 mistakes.
	0 points	Student makes more than 2 mistakes or leaves the response blank.

Item	KEY	Rationale
38	4 points	Student correctly identifies the missing fractions as $\frac{3}{4}$ and $\frac{6}{8}$ and $\frac{3}{3}$ as 1. Student clearly explains that 3 thirds is 3 out of 3 and equal to 1 whole.
	3 points	Student correctly identifies the missing fractions as $\frac{3}{4}$ and $\frac{6}{8}$ and $\frac{3}{3}$ as 1, but does not clearly explain why $\frac{3}{3}$ is equal to 1 whole.
	2 points	Student correctly identifies 1 of the 2 the missing fractions as $\frac{3}{4}$ and $\frac{6}{8}$ and $\frac{3}{3}$ as 1. Student explains that 3 thirds is 3 out of 3 and equal to 1 whole.
	1 point	Student incorrectly identifies 2 out of the 3 fractions - the missing fractions or $\frac{3}{3}$.
	0 points	Student does not identify any of the fractions correctly or leaves the response blank.

ANSWERS SORTED BY REPORTING CATEGORY

Number Sense			
Item number	Correct answer	Standard(s)	DOK
4	B	3.NS.2, 3.G.3	DOK 2
7	B	3.NS.5	DOK 1
12	D	3.NS.6	DOK 1
16	D	3.NS.5	DOK 2
21	B	3.NS.4	DOK 1
25	B	3.NS.4	DOK 1
26	A	3.NS.3	DOK 2
30	B, D	3.NS.3	DOK 1
37	Short answer response	3.NS.3, 3.NS.4	DOK 3

Indiana State Practice Math Test | Grade 3 | Rationale

Computation and Algebraic Thinking			
Item number	Correct answer	Standard(s)	DOK
1	A	3.CA.3	DOK 2
5	A	3.CA.6	DOK 1
6	A, D	3.CA.2	DOK 2
9	B, C, E	3.CA.8	DOK 2
10	A	3.CA.2	DOK 2
11	A, E	3.CA.7	DOK 2
19	C	3.CA.4	DOK 1
20	A	3.CA.1	DOK 2
22	D	3.CA.4	DOK 1
23	B, D, E	3.M.5, 3.CA.3	DOK 2
28	B, C, D	3.CA.5	DOK 2
33	B	3.CA.7	DOK 1
34	B, D	3.CA.3	DOK 1
35	C, D	3.CA.4	DOK 1

Indiana State Practice Math Test | Grade 3 | Rationale

Geometry, Measurement and Data Analysis			
Item number	Correct answer	Standard(s)	DOK
2	C	3.M.4	DOK 2
3	B	3.M.5	DOK 1
8	D	3.DA.1	DOK 2
13	B	3.M.3	DOK 1
14	C	3.M.2, 3.NS.3	DOK 1
15	D	3.M.1	DOK 2
17	B	3.G.1	DOK 2
18	A, C, E	3.M.6	DOK 2
24	C	3.G.1	DOK 1
27	A	3.M.5	DOK 1
29	B	3.M.1	DOK 1
31	A	3.M.3	DOK 2
32	C	3.G.3	DOK 1
36	Short answer response	3.DA.1	DOK 3

Do you have a group of students who need a boost in math?

Each student could receive personalized lessons every week from our specialist one-on-one math tutors.




- ✓ Differentiated instruction for each student
- ✓ Aligned to your state's standards
- ✓ Scaffolded learning to close gaps

“We just had our first session and it went great! The kids really liked it and felt like they were learning! One even said he finally felt like math was making sense.”



Michelle Craig, Instructional Coach,
Sherwood Forest Elementary, Washington

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