

Mathematics & Reading Standardized Testing Practice for Private School Admission to Grade 4

Each year in Hawaii, tens of thousands of public and private school students take standardized tests as part of school-wide and statewide assessments as well as academic ability tests for admission to private school. These standardized tests may include the ISEE (Independent School Entrance Exam – ERB), the CTBS (Comprehensive Tests of Basic Skills), the TerraNova, the Stanford Achievement Test and the ITBS (Iowa Tests of Basic Skills).

This test preparation study guide is designed to target third graders preparing for academic ability tests required as part of the admissions process for entrance to fourth grade at Hawaii’s top private schools. These standardized “entrance exams” are usually administered in the early part of a third grader’s Spring semester (e.g. January or February) and may correspond with the Writing Sample, the Admissions Interview and/or a group observational session. Advanced or recently graduated second graders can also begin using this study guide as they transition to more challenging concepts introduced in the first semester of their third grade year.

A pervasive characteristic of standardized tests for current third graders is that they are challenging, oftentimes featuring Mathematics and Reading test questions a grade level or more above your child’s current public or private school curriculum. A reason for this is that standardized tests used for the admission process target a smaller, more competitive group of students applying for top private schools across the nation.

Arguably the most important factor in standardized test preparation is the usage of **relevant study materials**. While it is reasonably simple to find intelligent and enthusiastic test preparation instructors, it is relatively difficult to obtain study materials that systematically and efficiently prepare a seven or eight-year-old for an intensive and multifaceted private school academic ability test.

To better prepare the dozens of third graders I coach each year, I have used my 15+ years of teaching / test-preparation / curriculum-development experience to create a study guide that closely approximates the sequence, scope, phrasing and difficulty level of actual standardized tests. I have accomplished this through years of meticulous research into individual standardized test questions and through information acquired from former test participants.

About the Author

Kevin Ninomiya has a B.A. in Mathematics (UH-Manoa) and a Master of Education. He has written manuals for database training and electronic grade-check systems for the Department of Education. He has a license to teach secondary mathematics in the State of Hawaii and has accumulated over 15 years of teaching / tutoring experience in test preparation and mathematics (arithmetic to college calculus / statistics). He was a certified SAT / GRE instructor for one of the largest test preparation companies in the United States. He has trained hundreds of students in preparation for the SSAT, SAT / ACT, GED and GRE exams.

328. Look at the two groups of numbers. Which statement about the numbers in these groups is true?

X	Y
565	634
347	678
556	847
437	736

- (A) All the numbers in Group Y are greater than 600.
- (B) All the numbers in Group X are odd.
- (C) All the numbers in Group X are less than 500.
- (D) All the numbers in Group Y are even.

329. What numeral means the same as $20,000 + 7,000 + 10 + 8$?

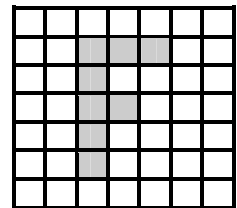
- (A) 27,718
- (B) 20,718
- (C) 27,018
- (D) 20,708

330. The table shows the number of pieces of different kinds of fruit in a fruit bowl. If Steve pulls out a fruit without looking, which type of fruit is Steve least likely to pull out?

Fruit	Number
Apple	47
Banana	39
Orange	52
Pear	41

- (A) Orange
- (B) Pear
- (C) Apple
- (D) Banana

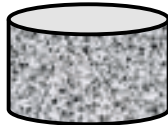
331. Each small square on the grid is 1 square unit. How many square units are needed to make the shaded figure shown on the grid?



- (A) 7
- (B) 8
- (C) 9
- (D) 49

332. Which geometric figure does the drum best represent?

- (A) Cylinder
- (B) Pyramid
- (C) Sphere
- (D) Cone



333. The table shows the number of pennies, nickels and dimes in a coin purse. What is the total value of all the coins?

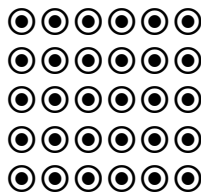
- (A) \$1.22
- (B) \$1.28
- (C) \$1.34
- (D) \$1.40

● = 2 coins

Coin	Number of Coins
Penny	● ●
Nickel	● ● ● ● ●
Dime	● ● ● ●

334. Checkers were arranged in the pattern shown. What operation best shows how they were arranged?

- (A) $6 + 6$
- (B) 5×5
- (C) $5 + 6$
- (D) 6×5



335. The table shows the number of each kind of book. There is more than 433 but less than 439 of which kind of book?

- (A) Romance
- (B) Mystery
- (C) Sports
- (D) Fantasy

Book	Number
Fantasy	441
Romance	423
Sports	432
Mystery	437

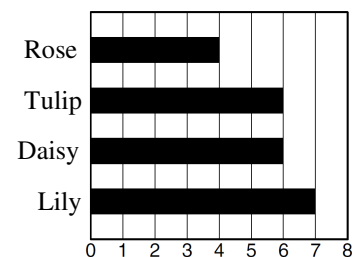
336. What is the value of the group of money?

- (A) \$5.05
- (B) \$5.10
- (C) \$5.15
- (D) \$5.20

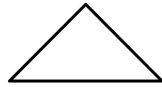
- Four one-dollar bills
- Three nickels
- Two quarters
- Five dimes

337. The graph shows how many of each type of flower there is. How many more roses and daisies are there than lilies?

- (A) 3
- (B) 4
- (C) 5
- (D) 6

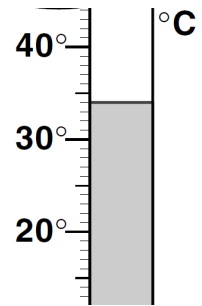


338. Which shape is congruent to the shape to the right?



- (A) (B) (C) (D)

339. The thermometer shows how many degrees Celsius?



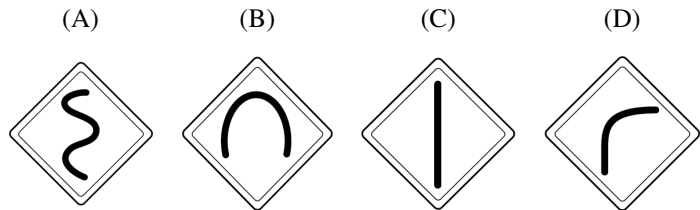
- (A) 32 degrees Celsius
 (B) 33 degrees Celsius
 (C) 34 degrees Celsius
 (D) 35 degrees Celsius

340. How many lines of symmetry does the figure have?



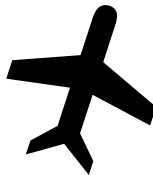
- (A) 1
 (B) 2
 (C) 4
 (D) 6

341. Which sign shows a road that is the best model of a line segment?



- (A) (B) (C) (D)

342. The width of the toy plane is closest to



- (A) 2 paper clips
 (B) 3 paper clips
 (C) 5 paper clips
 (D) 8 paper clips



343. Which is closest to the amount of water the watering can will hold when full?



- (A) one cup
 (B) one pint
 (C) one quart
 (D) one gallon

344. There are 4 groups of children. There are 24 children in all. The number sentence is used to find out how many children are in each group. What is the missing number that makes the number sentence true?

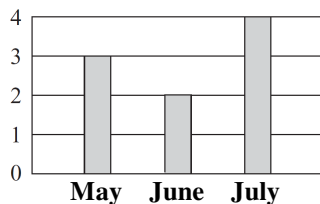
$$4 \times \square = 24$$

- (A) 6
 (B) 4
 (C) 20
 (D) 8

345. A family needs to buy 24 bars of soap. Soap bars come in packs of 8. Which of these can be used to find how many packs of soap the family needs to buy?

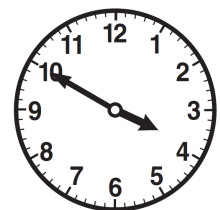
- (A) $24 + 8$
 (B) $24 - 8$
 (C) $24 \div 8$
 (D) 24×8

346. Classmates were asked what month their birthday was in. The chart shows the data collected. How many more classmates had birthdays in June or July than in May?



- (A) 2
 (B) 1
 (C) 4
 (D) 3

347. What time does the clock show?



- (A) 3:40
 (B) 3:50
 (C) 4:40
 (D) 4:50

348. The table shows the number of different kinds of after-school activities done by children. Which number sentence shows the best way to estimate the total number of after-school activities done by children?

Activity	Number
Dance	47
Sports	94
Computer	14
Music	81

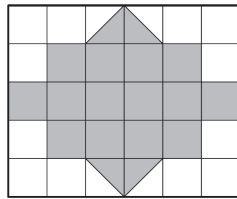
- (A) $50 + 100 + 20 + 90 = 260$
- (B) $40 + 90 + 10 + 80 = 220$
- (C) $50 + 90 + 10 + 80 = 230$
- (D) $40 + 100 + 20 + 90 = 250$

349. Sue has a bag that contains 6 red, 1 blue, 3 green, and 2 yellow marbles. What fractional part of the bag of marbles is green?

- (A) $\frac{3}{12}$
- (B) $\frac{1}{12}$
- (C) $\frac{6}{12}$
- (D) $\frac{3}{9}$

350. If each square measures 1 square foot, what is the area of the shaded part of the design?

- (A) 18 square feet
- (B) 16 square feet
- (C) 14 square feet
- (D) 30 square feet



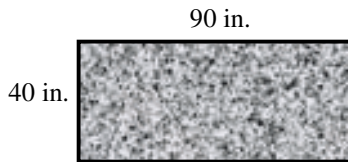
351. Ms. Chang gave her students 3 points for every 5 correct answers on a test. If Rick had 30 correct answers, how many points did he get?

- (A) 17
- (B) 16
- (C) 19
- (D) 18

Correct Answers	Points
5	3
10	6
15	9
20	12

352. A wooden board in the shape of a rectangle is 90 inches long and 40 inches wide. What is the perimeter of the wooden board?

- (A) 50 in.
- (B) 130 in.
- (C) 260 in.
- (D) 360 in.



353. The table shows the number of different colored cards in a bag. If Larry picks a card without looking, which color will he most likely get?

- (A) blue
- (B) green
- (C) yellow
- (D) red

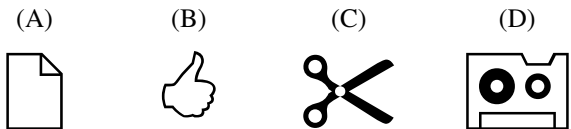
Color	Number
Red	74
Blue	79
Yellow	73
Green	76

354. What number is missing in the pattern?

- (A) 20
- (B) 21
- (C) 22
- (D) 23

2, 9, 16, ____, 30

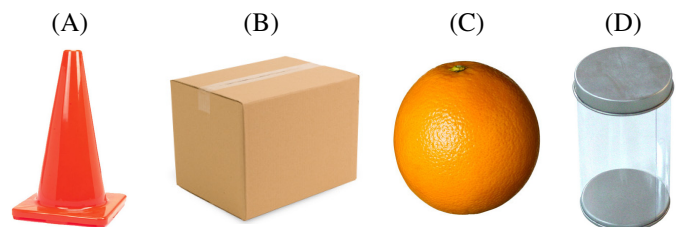
355. Which figure has a line of symmetry?



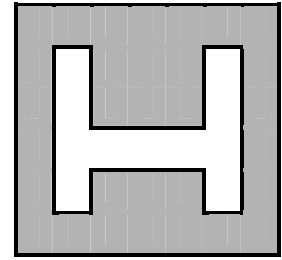
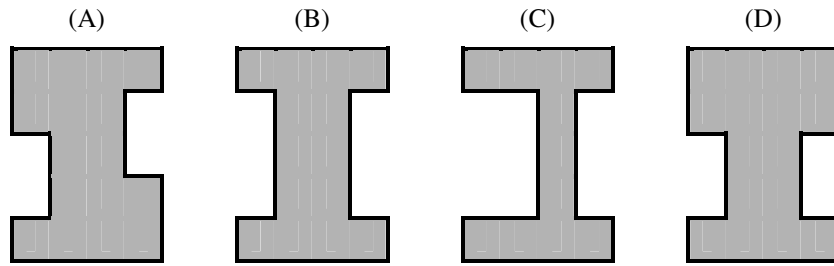
356. On Sunday, Cindy took exactly 60 minutes to clean her room. How many hours did it take Cindy to clean her room?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

357. Which is most shaped like a *cylinder*?



358. Melvin cut a shape out of a piece of colored paper (far right). Which of the following is closest to the size and shape of that missing piece?



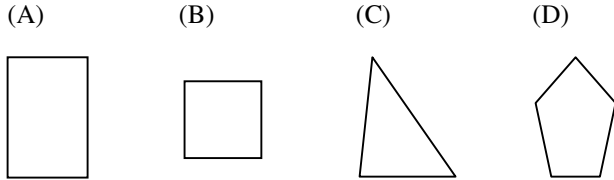
359. The table shows the different colors and sizes of shirts. Which lists all the different ways to combine 1 shirt color and 1 shirt size?

Shirts

Colors	Sizes
Black	Small
	Medium
White	Large

- (A) black-small, black-medium, black-large, white-small, white-medium, white-large
- (B) black-small, black-medium, white-medium, white-large
- (C) black-medium, black-large, white-small, white-medium, white-large
- (D) black-small, black-large, white-medium, white-large

360. Shapes were put into a group using the rule “all sides of the shape are the same length.” Which shape also seems to belong to the group?



361. Forty-eight pastries were put into boxes. Exactly 6 pastries were put in each box. How many boxes were filled with pastries?

- (A) 9
- (B) 7
- (C) 8
- (D) 6

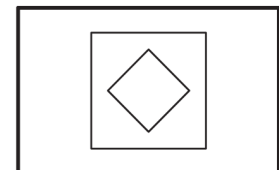
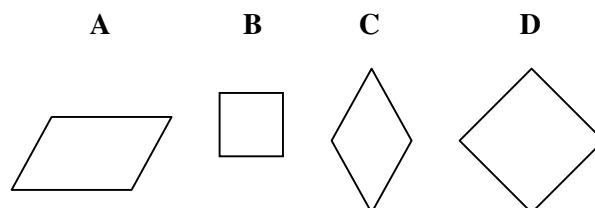
362. What is the pattern for the shaded numbers in the chart?

- (A) “Add 7”
- (B) “Add 8”
- (C) “Add 9”
- (D) “Add 10”

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

363. Which 2 figures seem to be congruent to shapes inside the rectangle to the right?

- (A) A and C
- (B) B and D
- (C) C and D
- (D) B and C



1 Everything was wonderful today. Even the birds sounded cheerier than ever. They whistled from nearby trees.
2 Polly's bicycle barely stopped as she jumped off. They had arrived at the special place in the park where the giant
3 silver slide lived. Polly loved the slide. She got a shivery joy each time she slipped along its long slender back. She
4 ran over to the slide.
5 "Slow down, Polly," shouted her mother, smiling at her young daughter.
6 Barbara enjoyed these outings as much as Polly. She loved to just relax and visit with the other women she would
7 meet there. They would trade stories about their children. When she felt like it, Barbara tucked her knitting or an
8 interesting novel into Polly's bag. She felt a little tired from her brisk walk and plopped down at the nearest picnic
9 table. Soon Carol, one of her friends, wandered over to her.
10 Polly watched her mother and the other woman. Polly liked it when her mother chatted or visited with other
11 women. It gave her extra long playtime.
12 The slide was cold today. But this did not stop Polly from whisking down its bare back. The cold metal sent
13 shivers of fun through her. Faster and faster she slid each time she climbed the endless steps. Up, up, up she went
14 eager to swoosh along the cold, silver slide. Polly loved to daydream while she rode on the slide. She would close her
15 eyes and think of herself as a lovely princess on a white horse. Some days, she would pretend that she was either a
16 lost puppy or a lost kitten looking for its mother. She would crawl around while she meowed or whimpered sadly.
17 Polly had heard her mother say that she had a good imagination. She wasn't really sure what this meant. She guessed
18 that it meant that she was really great at pretending things.
19 Polly continued her trips up the stairs and down the slide. On what was maybe her twelfth trip, a strange sound
20 shot into the air. It was a very painful groan. "What's that?" she asked, jumping off the end of the slide.
21 "Oh, thank you!" came the answer over her shoulder.
22 "Who said that?" Polly asked again, looking round and round.
23 "I did."
24 Polly bent at the waist, jumped to one foot and spun around. She was staring right at the slide. Two very, very sad
25 eyes stared back at her. "Thank you for getting off," said a giant mouth just below the teary eyes.

- Susan A. Candela

91. Which of the following is the *best* title for this story?

- (A) "Polly, Barbara and Carol"
- (B) "The Giant Silver Slide"
- (C) "Barbara's Imagination"
- (D) "Polly's School Day"

92. Which of the following is *true* in the story?

- (A) Barbara is Polly's mother.
- (B) Carol is Polly's friend.
- (C) Polly is Carol's sister.
- (D) Barbara is Polly's sister.

93. Who is talking to Polly at the end of this story?

- (A) the playground
- (B) the bicycle
- (C) a classmate
- (D) the slide

94. Which of the following happens last?

- (A) Polly begins to daydream.
- (B) Carol meets Barbara.
- (C) Polly begins to ride the slide.
- (D) Polly rides her bicycle.

95. According to the fourth paragraph (lines 6-9), which is **NOT** something that Barbara does while Polly is playing?

- (A) talk with a friend
- (B) rest
- (C) talk about her child
- (D) shop

96. Which is not something Polly imagines herself to be?

- (A) a lost kitten
- (B) a silver slide
- (C) a lost puppy
- (D) a princess