

**CALIFORNIA HIGH SCHOOL
EXIT EXAM**

**MATHEMATICS PRACTICE TEST
FORM MATH E**

Source:

**Standards and Assessment Division
California Department of Education**

Edited by:

RUSD Department of Educational Accountability

NUMBER SENSE

1. The radius of the earth's orbit is 150,000,000,000 meters. What is this number in scientific notation?

A 1.5×10^{-11}
 B 1.5×10^{11}
 C 15×10^{10}
 D 150×10^9

M00213

4. If Freya makes 4 of her 5 free throws in a basketball game, what is her free throw shooting percentage?

A 20%
 B 40%
 C 80%
 D 90%

M00223

2. The five members of a band are getting new outfits. Shirts cost \$12 each, pants cost \$29 each, and boots cost \$49 a pair. What is the total cost of the new outfits for all of the members?

A \$90
 B \$95
 C \$450
 D \$500

M00331

5. The cost of an afternoon movie ticket last year was \$4.00. This year an afternoon movie ticket costs \$5.00. What is the percent increase of the ticket from last year to this year?

A 10%
 B 20%
 C 25%
 D 40%

M02158

3. $\frac{11}{12} - \left(\frac{1}{3} + \frac{1}{4}\right)$

A $\frac{1}{3}$
 B $\frac{3}{4}$
 C $\frac{5}{6}$
 D $\frac{9}{5}$

M02048

6. Sally puts \$200.00 in a bank account. Each year the account earns 8% simple interest. How much interest will be earned in three years?

A \$16.00
 B \$24.00
 C \$48.00
 D \$160.00

M02119

NUMBER SENSE

7. $\frac{10^{-2}}{10^{-4}} =$

- A 10^{-6}
- B 10^{-2}
- C 10^2
- D 10^8

M02832

9. The square root of 150 is between

- A 10 and 11.
- B 11 and 12.
- C 12 and 13.
- D 13 and 14.

M02666

8. $(3^8)^2 =$

- A 3^4
- B 3^6
- C 3^{10}
- D 3^{16}

M02406

10. If $|x| = 3$, what is the value of x ?

- A -3 or 0
- B -3 or 3
- C 0 or 3
- D -9 or 9

M02122

STATISTICS, DATA ANALYSIS, AND PROBABILITY

11. Rico's first three test scores in biology were 65, 90, and 73. What was his mean score?

- A 65
- B 73
- C 76
- D 90

M02247

12. Three-fourths of the 36 members of a club attended a meeting. Ten of those attending the meeting were female. Which one of the following questions can be answered with the information given?

- A How many males are in the club?
- B How many females are in the club?
- C How many male members of the club attended the meeting?
- D How many female members of the club did not attend the meeting?

M00261

13. To get home from work, Curtis must get on one of the three highways that leave the city. He then has a choice of four different roads that lead to his house. In the diagram below, each letter represents a highway, and each number represents a road.

		Highway		
		A	B	C
Road	1	A 1	B 1	C 1
	2	A 2	B 2	C 2
	3	A 3	B 3	C 3
	4	A 4	B 4	C 4

If Curtis randomly chooses a route to travel home, what is the probability that he will travel Highway B and Road 4?

- A $\frac{1}{16}$
- B $\frac{1}{12}$
- C $\frac{1}{4}$
- D $\frac{1}{3}$

M02512

STATISTICS, DATA ANALYSIS, AND PROBABILITY

14. Mr. Gulati is holding five cards numbered 1 through 5. He has asked five students to each randomly pick a card to see who goes first in a game. Whoever picks the card numbered 5 goes first. Juanita picks first, gets the card numbered 4, and keeps the card. What is the probability that Yoko will get the card numbered 5 if she picks second?

- A $\frac{1}{2}$
- B $\frac{1}{3}$
- C $\frac{1}{4}$
- D $\frac{1}{5}$

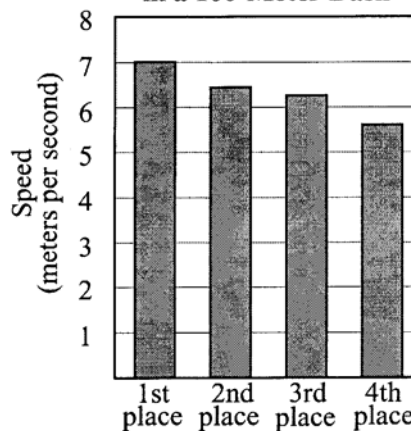
M02145

15. A bag contained four green balls, three red balls, and two purple balls. Jason removed one purple ball from the bag and did not put the ball back in the bag. He then randomly removed another ball from the bag. What is the probability that the second ball Jason removed was purple?

- A $\frac{1}{36}$
- B $\frac{1}{9}$
- C $\frac{1}{8}$
- D $\frac{2}{9}$

M03097

Speed of Four Runners in a 100-Meter Dash



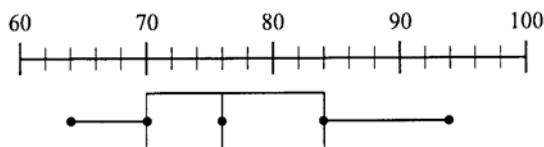
Runners

16. Based on the bar graph shown above, which of the following conclusions is true?

- A Everyone ran faster than 6 meters per second.
- B The best possible rate for the 100-meter dash is 5 meters per second.
- C The first-place runner was four times as fast as the fourth-place runner.
- D The second-place and third-place runners were closest in time to one another.

M00279

Scores on an Algebra Test



17. According to the box-and-whisker plot, what was the highest score a student received on the algebra test?

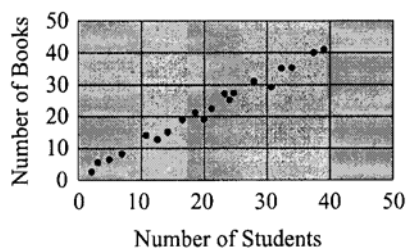
- A 76
- B 84
- C 94
- D 100

M02089

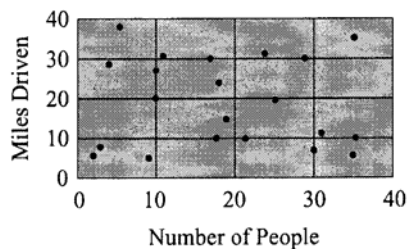
STATISTICS, DATA ANALYSIS, AND PROBABILITY

18. Which scatter plot shows a negative correlation?

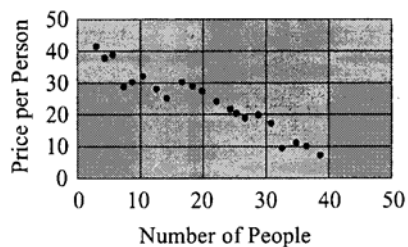
A



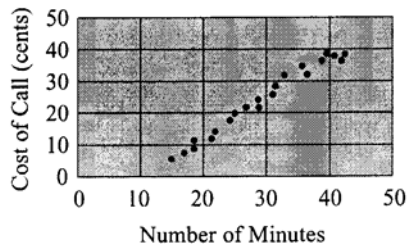
C



B



D



M02546

19. The ages of 100 trees in the Evergreen Nursery range from 1 month to 10 years. The lower quartile value is the median age of the

- A 50 oldest trees.
- B 50 youngest trees.
- C 50 trees in the middle.
- D 50 trees with the average age.

M02756

**CALIFORNIA HIGH SCHOOL EXIT EXAM MATHEMATICS
PRACTICE TEST FORM E**

FORM: MATH E					
Mathematics					
Item	Standards Tested				
No.	Session One	(Circle the Correct Answer)			
1	Grade 7 - Number Sense	A	B	C	D
2	Grade 7 - Number Sense	A	B	C	D
3	Grade 7 - Number Sense	A	B	C	D
4	Grade 7 - Number Sense	A	B	C	D
5	Grade 7 - Number Sense	A	B	C	D
6	Grade 7 - Number Sense	A	B	C	D
7	Grade 7 - Number Sense	A	B	C	D
8	Grade 7 - Number Sense	A	B	C	D
9	Grade 7 - Number Sense	A	B	C	D
10	Grade 7 - Number Sense	A	B	C	D
11	Grade 6 - Statistics, Data Analysis, and Probability	A	B	C	D
12	Grade 6 - Statistics, Data Analysis, and Probability	A	B	C	D
13	Grade 6 - Statistics, Data Analysis, and Probability	A	B	C	D
14	Grade 6 - Statistics, Data Analysis, and Probability	A	B	C	D
15	Grade 6 - Statistics, Data Analysis, and Probability	A	B	C	D
16	Grade 7 - Statistics, Data Analysis, and Probability	A	B	C	D
17	Grade 7 - Statistics, Data Analysis, and Probability	A	B	C	D
18	Grade 7 - Statistics, Data Analysis, and Probability	A	B	C	D
19	Grade 7 - Statistics, Data Analysis, and Probability	A	B	C	D

**CALIFORNIA HIGH SCHOOL EXIT EXAM MATHEMATICS
PRACTICE TEST FORM E**

FORM: MATH E	
Item	
No.	Key
1	B
2	C
3	A
4	C
5	C
6	C
7	C
8	D
9	C
10	B
11	C
12	C
13	B
14	C
15	C
16	D
17	C
18	B
19	B