

FORM
M-K-3KDT

Descriptive Tests of
Mathematics Skills

in

ARITHMETIC
SKILLS

Assessing Basic Academic Competencies
Identified in *Academic Preparation for College*

THIS TEST BOOK MUST NOT BE TAKEN FROM THE ROOM.



MAPS™: College Entry-Level Assessment
THE COLLEGE BOARD

Time—30 minutes

35 Questions

Directions: For this test solve each problem. Then indicate the best answer in the appropriate space on the answer sheet.

1. $908 - 59 =$

- (A) 849
- (B) 851
- (C) 859
- (D) 951

2.
$$\begin{array}{r} 27 \\ \times 35 \\ \hline \end{array}$$

- (A) 1,435
- (B) 945
- (C) 915
- (D) 216

3. $2,641 + 72 + 409 =$

- (A) 2,012
- (B) 3,022
- (C) 3,122
- (D) 13,931

4. If the odometer of a car registers 6,432.1 miles at the start of a trip and if the trip is exactly 550 miles long, what will the odometer register in miles at the end of the trip?

- (A) 5,982.1
- (B) 6,487.1
- (C) 6,982.1
- (D) 11,932.1

5. $8 \overline{)2,408}$

- (A) 31
- (B) 301
- (C) 310
- (D) 311

6. $\frac{1}{3} + \frac{2}{5} =$

- (A) $\frac{3}{15}$
- (B) $\frac{3}{8}$

(C) $\frac{11}{15}$

(D) $\frac{11}{8}$

7. $8 \div \frac{3}{5} =$

(A) $\frac{3}{40}$

(B) $\frac{5}{24}$

(C) $\frac{24}{5}$

(D) $\frac{40}{3}$

GO ON TO THE NEXT PAGE.

8. Jim earns \$9 per hour for the first 40 hours he works in a week and \$12 per hour for any additional hours worked in that week. How much did he earn in a week in which he worked 50 hours?

- (A) \$450
- (B) \$480
- (C) \$500
- (D) \$600

9. $68 \overline{)74,120}$

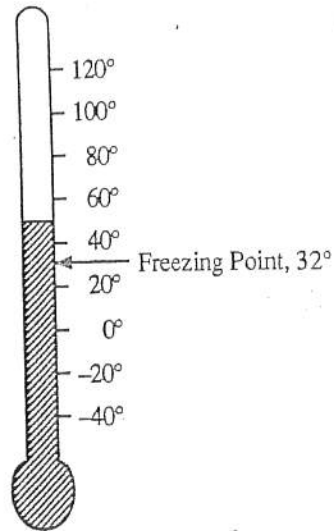
- (A) 109
- (B) 190
- (C) 1,090
- (D) 1,900

10. Ribbon costs 60 cents a yard. If Anna bought two pieces of ribbon, one $\frac{1}{3}$ yard long and the other $\frac{1}{2}$ yard long, how much did she pay altogether for the ribbon?

- (A) 10 cents
- (B) 12 cents
- (C) 24 cents
- (D) 50 cents

11. Which of the following represents five thousand one hundred eight?

- (A) 5,108
- (B) 5,180
- (C) 51,008
- (D) 51,080



12. The thermometer pictured above shows the temperature in degrees Fahrenheit. The temperature registered on the thermometer is about how many degrees above the freezing point?

- (A) 10
- (B) 20
- (C) 30
- (D) 50

13. Which of the following is less than $\frac{2}{3}$?

- (A) $\frac{4}{6}$
- (B) $\frac{7}{6}$
- (C) $\frac{4}{9}$
- (D) $\frac{4}{5}$

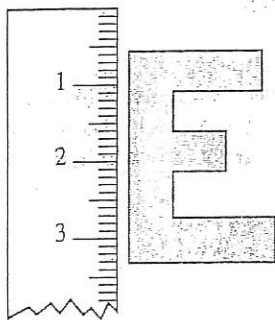
GO ON TO THE NEXT PAGE.

14. What is the area of a rectangular piece of cloth $1\frac{1}{2}$ yards wide and 4 yards long?

- (A) 6 yards
- (B) 6 square yards
- (C) 11 yards
- (D) 11 square yards

15. $1.6 \overline{)65.28}$

- (A) 4.8
- (B) 40.8
- (C) 48
- (D) 408



16. The figure above shows a letter from an advertising poster and part of a centimeter ruler. What is the height of the letter, to the nearest tenth of a centimeter?

- (A) 2.5 cm
- (B) 2.8 cm
- (C) 3.0 cm
- (D) 3.3 cm

17. Which of the following is equal to 45% ?

- (A) $\frac{45}{100}$
- (B) $4\frac{1}{2}$
- (C) $\frac{1}{45}$
- (D) $\frac{45}{1,000}$

18. $\frac{18}{5} \div \frac{9}{10} =$

- (A) $\frac{1}{4}$
- (B) $\frac{25}{81}$
- (C) $\frac{81}{25}$
- (D) 4

19. 9% of 60 =

- (A) 0.54
- (B) 5.4
- (C) 54
- (D) 540

20. $30 \times 2\frac{1}{3} =$

- (A) $60\frac{1}{3}$
- (B) 61
- (C) 67
- (D) 70

GO ON TO THE NEXT PAGE.

21. $3.25 \times 4.7 =$

- (A) 15.275
- (B) 35.575
- (C) 152.75
- (D) 355.75

22. Of the following, which is least?

- (A) 8.3
- (B) 8.16
- (C) 8.092
- (D) 8.291

23. $0.6 \overline{)12}$

- (A) 0.02
- (B) 0.2
- (C) 2
- (D) 20

24. $2.25 =$

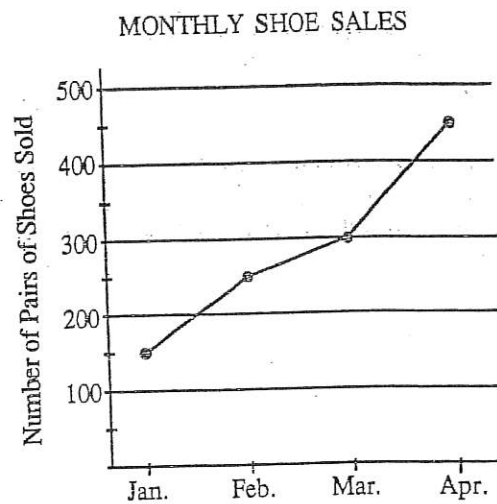
- (A) $2\frac{1}{4}$
- (B) $2\frac{1}{5}$
- (C) $2\frac{1}{20}$
- (D) $2\frac{1}{25}$

25. What is 58.0833 rounded to the nearest hundredth?

- (A) 58.083
- (B) 58.084
- (C) 58.08
- (D) 58.09

26. For which of the following pairs of numbers, x and y , is the ratio of x to y equal to the ratio 1 to 2?

- (A) $x = \frac{1}{2}, y = \frac{1}{2}$
- (B) $x = 2, y = 3$
- (C) $x = 7, y = 14$
- (D) $x = 32, y = 16$

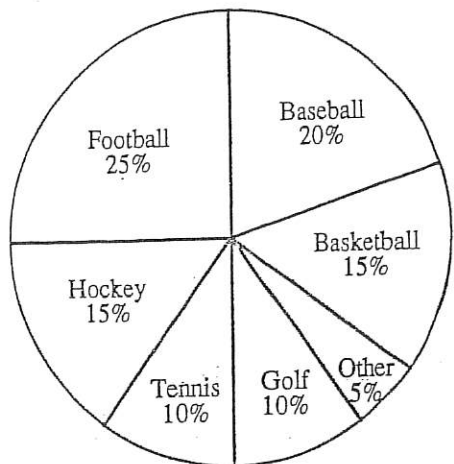


27. The graph above shows the number of pairs of shoes sold each month from January to April. Approximately how many more pairs of shoes were sold in April than in February?

- (A) 150
- (B) 200
- (C) 250
- (D) 450

GO ON TO THE NEXT PAGE.

FAVORITE SPORTS OF 400 PEOPLE



Person	Height
Lee	5 ft 10 in
Dale	6 ft 2 in
Chris	6 ft 3 in

28. The graph above shows the results of a poll in which 400 people were asked to name their favorite sport. How many people indicated that their favorite sport is hockey?
- (A) 15
 - (B) 27
 - (C) 40
 - (D) 60

30. The table above gives the heights, in feet and inches, of 3 people. What is the average (arithmetic mean) height of these 3 people?
- (A) 6 ft 0 in
 - (B) 6 ft 1 in
 - (C) 6 ft 2 in
 - (D) 6 ft 3 in
31. If 16 ounces of laundry detergent costs \$3.20, what is the cost of 20 ounces of laundry detergent at the same rate?
- (A) \$2.56
 - (B) \$3.24
 - (C) \$3.60
 - (D) \$4.00

29. $3\frac{1}{2} - 1\frac{2}{3} =$
- (A) $1\frac{1}{3}$
 - (B) $1\frac{5}{6}$
 - (C) $2\frac{1}{6}$
 - (D) $2\frac{1}{3}$

GO ON TO THE NEXT PAGE.

32. 5 is equal to 20 percent of what number?

- (A) 1
- (B) 25
- (C) 40
- (D) 100

33. A rectangular plot of land 24 feet by 30 feet is to be completely enclosed by a fence. If fencing is sold only in 8-foot sections, how many sections must be bought?

- (A) 6
- (B) 7
- (C) 13
- (D) 14

34. If $\frac{k}{5} = \frac{10}{13}$, what is the value of k ?

- (A) $\frac{2}{13}$
- (B) $\frac{13}{50}$
- (C) $\frac{50}{13}$
- (D) $\frac{13}{2}$

35. What percent of 200 is 4?

- (A) 2%
- (B) 4%
- (C) 5%
- (D) 8%

IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK ON THIS TEST.

Arithmetic Skills

Assessing Basic Academic Competencies Identified in
Academic Preparation for College

Self-Scoring Answer Sheet

Instructions: Use any type of pencil or pen and press firmly.

To indicate your answer for each question, make a large X in the box containing the letter of the answer you select.

EXAMPLE: A B C D

If you wish to change an answer, fill in the entire box and place an X in the box of your choice.

EXAMPLE: A B C D

Name:	Social Security Number:	Date:
-------	-------------------------	-------

<p>1 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>2 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>3 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>4 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>5 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>6 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>7 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>8 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>9 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>10 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>11 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>12 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p>	<p>13 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>14 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>15 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>16 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>17 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>18 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>19 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>20 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>21 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>22 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>23 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>24 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p>	<p>25 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>26 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>27 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>28 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>29 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>30 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>31 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>32 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>33 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>34 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p> <p>35 <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D</p>
--	---	---

When you are told to do so, tear off the perforated strip at the top of the page and peel the pages apart completely. Instructions for scoring your answer sheet are printed on the back of this page.

