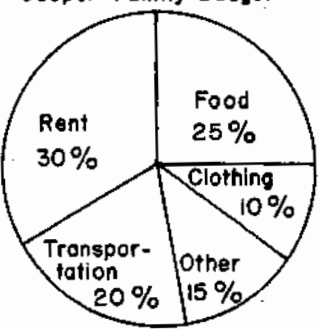# Part A

Answer all 20 questions in this part. Write your answers on the lines provided in PART A on the separate answer sheet. Use only a black lead pencil on the answer sheet.

1 Add:
$$\begin{array}{r} 6317 \\ 102 \\ +\ \ 783 \\ \hline \end{array}$$

2 The circle graph below shows the Cooper family budget. In what area does the family spend the *least* amount of money?

Cooper Family Budget

Rent 30%
Food 25%
Clothing 10%
Other 15%
Transportation 20%

3 Write a numeral for five thousand one hundred five.

4 Add: $1.3 + 3.72 + 0.2$

5 Subtract:
$$\begin{array}{r} 5003 \\ -379 \\ \hline \end{array}$$

6 Subtract:
$$\begin{array}{r} 40.36 \\ 18.79 \\ \hline \end{array}$$

7 What is $\frac{19}{6}$ written as a mixed number in simplest form?

8 What is 744 rounded to the nearest hundred?

9 Multiply:
$$\begin{array}{r} 631 \\ \times\ \ 47 \\ \hline \end{array}$$

10 Multiply:
$$\begin{array}{r} 3.62 \\ \times\ 0.7 \\ \hline \end{array}$$

11 Multiply: $\frac{2}{3} \times \frac{8}{9}$

12 Solve the following equation for x:
$$3x + 2 = 20$$

13 What is the remainder when 6040 is divided by 12?

14 Divide: $1.3\overline{)1.69}$

15 Divide: $-20 \div -4$

16 Divide: $36\overline{)4572}$

17 A rectangle has a length of 6 feet and a width of 5 feet. How many square feet are in the area of the rectangle?

18 Express 0.32 as a fraction in *lowest terms*.

19 What is the value of A in the formula $A = \frac{1}{2}bh$ when $b = 6$ and $h = 3$?
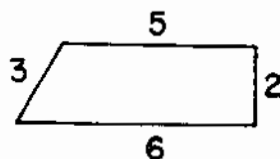
20 Add: $(-3) + (-9) + (+7)$

Part B

Answer all 40 questions in this part. Mark your answers in the rows of answer circles provided in PART B on the separate answer sheet. Use only a black lead pencil on the answer sheet.

21 The distance between two classrooms should be measured in

(a) grams   (c) liters
(b) meters   (d) degrees

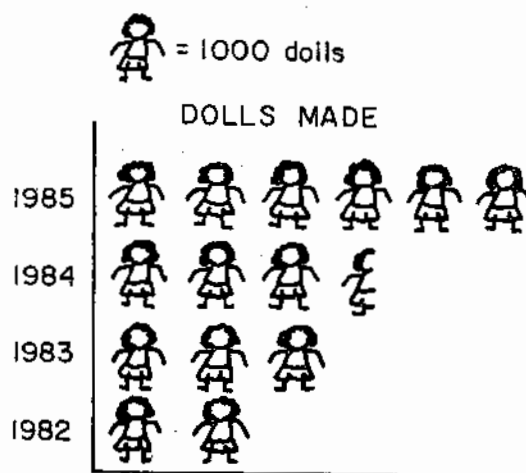**22** What is the perimeter of the figure below?

(a) 11   (c) 15
(b) 12   (d) 16

23 On a map, 1 inch represents 25 miles. How many miles are represented by 5 inches?

(a) 1   (c) 25
(b) 5   (d) 125

24 The graph below shows the number of dolls made each year by a toy company. How many more dolls were made in 1985 than in 1984?

(a) 2000   (c) 2500
(b) 2   (d) 14,500

25 In the number 43.89, which numeral is in the tenths place?

(a) 8   (c) 3
(b) 9   (d) 4

26 Which number is divisible by 6 and by 4?

(a) 12   (c) 20
(b) 16   (d) 32

27 Juan had a bank balance of $102.30. He made a deposit of $57.36 and a withdrawal of $73.05. What is the new balance of his account?

(a) $232.71   (c) $117.99
(b) $132.81   (d) $86.61

28 Which is a list of all the positive factors of 24?

(a) 1, 2, 3, 4, 6, 8
(b) 1, 2, 3, 6; 8, 24
(c) 1, 2, 3, 4, 6, 8, 12, 24
(d) 2, 3, 4, 6, 8, 12

29 When written as a percent, the decimal 0.46 is equal to

(a) 0.0046%   (c) 46%
(b) 4.6%   (d) 460%

30 Which number is *not* between −5 and 3?

(a) −1   (c) −3
(b) 0   (d) 5

31 Elaine purchased a blouse for $10.98, a hat for $12.50, and a winter coat for $94.09. If she had $130 to spend on these items, how much money did she have left after they were purchased?

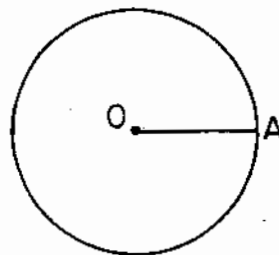(a) $12.43   (c) $17.57
(b) $13.57   (d) $20.43

32 Which is a square root of 81?

(a) 8.1   (c) 27
(b) 9   (d) 40.5

33 Frank needs $600 each year to pay for his auto insurance. How much must he budget each month in order to save the $600 in one year?

(a) $6   (c) $50
(b) $12   (d) $60

34 In the circle below with O as the center, which is the best description of $\overline{OA}$?

(a) radius   (c) chord
(b) diameter   (d) secant

35 Ted bought some furniture and agreed to pay $45 a month for 18 months. What total amount did Ted pay for the furniture?

(a) $650 (c) $810
(b) $725 (d) $975

36 What is the least common denominator of the fractions $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{5}$?
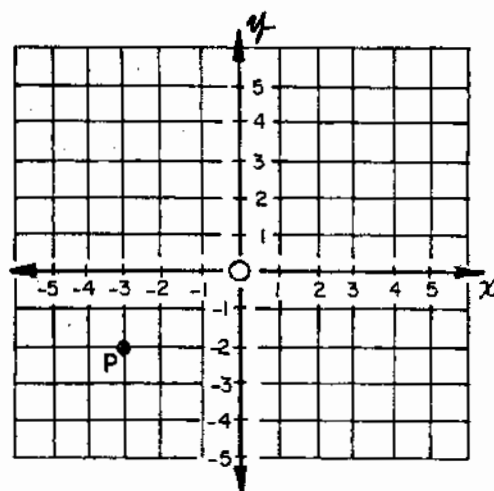
(a) 40 (c) 10
(b) 20 (d) 8

37 What is the value of 6^3?

(a) 9 (c) 42
(b) 18 (d) 216

38 A train traveled at an average speed of 70 miles per hour for 3.5 hours. How far did it travel?

(a) 245 miles (c) 73.5 miles
(b) 210.5 miles (d) 20 miles

39 What are the coordinates of point P on the graph below?

(a) (−2,3) (c) (−3,2)
(b) (−2,−3) (d) (−3,−2)

40 Maria has 2 social studies books, 1 science book, and 3 math books in a box. If she picks one book from the box without looking, what is the probability that she will pick a science book?

(a) $\frac{1}{6}$ (c) $\frac{1}{3}$

(b) $\frac{1}{5}$ (d) $\frac{1}{4}$

41 What is 10% of 90?

(a) 900 (c) 9
(b) 90 (d) 0.90

42 What is the sum of $\frac{4}{3} + \frac{5}{3}$?

(a) $6\frac{2}{3}$

(c) 3

(b) $1\frac{1}{2}$

(d) $\frac{4}{5}$

43 New uniforms for a softball team cost $40 each. What is the greatest number of uniforms that could be purchased with $635?

(a) 15

(c) 25

(b) 16

(d) 40

44 If the circumference of a circle is 16π, what is the length of the radius?

(a) 16

(c) 8

(b) 2

(d) 4

45 What is the median of the following set of scores?

68, 70, 72, 80, 80

(a) 68

(c) 78

(b) 72

(d) 80

46 Sticks of candy cost 3 cents each. Which table shows this relationship?

(a)

Number of Sticks	Total Cost (Cents)
0	0
2	6
4	12

(b)

Number of Sticks	Total Cost (Cents)
0	3
2	3
4	3

(c)

Number of Sticks	Total Cost (Cents)
0	0
6	2
12	4

(d)

Number of Sticks	Total Cost (Cents)
0	0
2	4
4	8

47 Which is a prime number?

(a) 27

(c) 17

(b) 21

(d) 15

48 The price of a baseball glove is $40. If the sales tax rate is 7%, what is the total cost of the baseball glove?

(a) $37.20 (c) $47.00
(b) $42.80 (d) $68.50

49 In a class of 20 students, 7 are girls. What is the ratio of the number of girls to the number of boys?

(a) 7:13 (c) 13:7
(b) 7:20 (d) 20:7

50 The bar graph below shows a student's scores on five tests. What is the mode of these scores?

TEST SCORES

(a) 80 (c) 90
(b) 85 (d) 95

51 Kim slept from 10:30 p.m. to 7:15 a.m. The total amount of time that she slept was

(a) 3 hours and 15 minutes
(b) 8 hours and 45 minutes
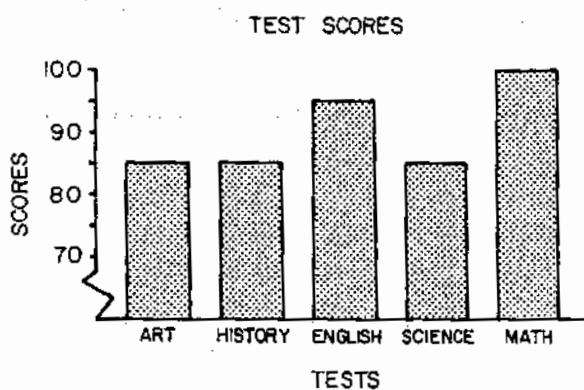(c) 9 hours and 15 minutes
(d) 17 hours and 45 minutes

52 Which price is the *lowest* cost per can?

(a) 5 cans for $1
(b) 6 cans for $1.25
(c) 1 can for $0.22
(d) 3 cans for $0.65

53 A 20% tip left at a restaurant was $6.00. How much was the bill?

(a) $1.20 (c) $30.00
(b) $12.00 (d) $120.00
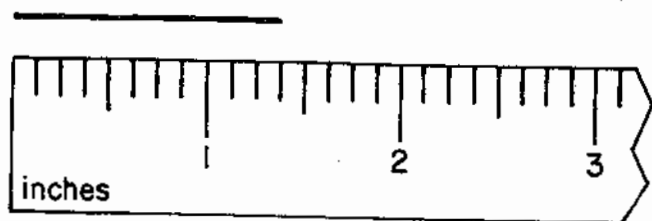
54 Which decimal has the greatest value?

(a) 0.019 (c) 0.091
(b) 0.19 (d) 0.109

55 The sentence $\frac{5}{3} = \frac{n}{7}$ is

equivalent to

(a) $n = 5 \times 7 \times 3$
(b) $5 \times 3 = n \times 7$
(c) $5 \times n = 3 \times 7$
(d) $5 \times 7 = 3 \times n$

56 What is the measure of the line segment below?

(a) $1\frac{1}{4}$ in   (c) $1\frac{1}{2}$ in

(b) $1\frac{3}{8}$ in   (d) $1\frac{3}{4}$ in

57 Two angles of a triangle measure 64° and 37°. What is the measure of the third angle of the triangle?

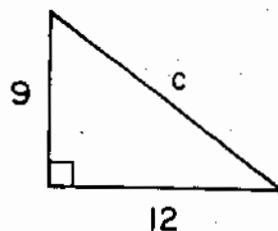(a) 79°   (c) 180°
(b) 101°   (d) 259°

58 Which sentence represents the statement below?

If 9 is subtracted from 17, the result is greater than 5.

(a) $9 - 17 > 5$
(b) $9 - 17 < 5$
(c) $17 - 9 < 5$
(d) $17 - 9 > 5$

59 What is the value of c in the right triangle below?

(a) 15   (c) 63
(b) 21   (d) 225

60 Which number equals $5\frac{3}{7} - 3\frac{5}{7}$?

(a) $1\frac{2}{7}$ (c) $2\frac{2}{7}$

(b) $1\frac{5}{7}$ (d) $2\frac{5}{7}$