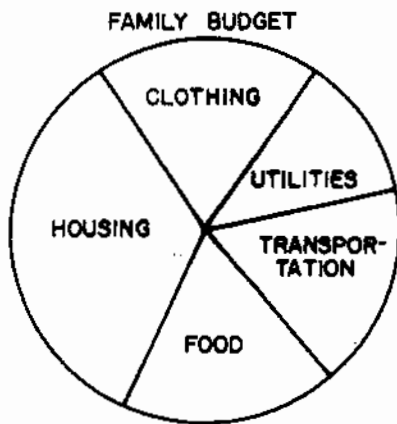


Part A

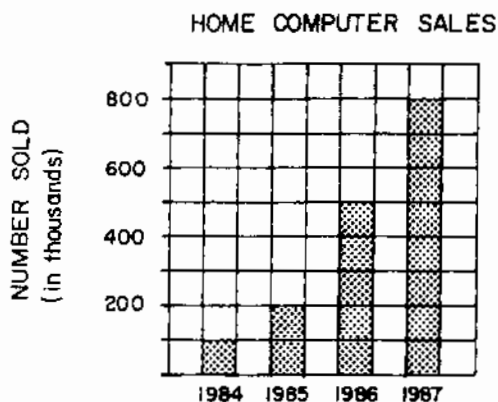
Answer all 20 questions in this part. Write your answers on the lines provided in PART A on the separate answer sheet. Use only a black lead pencil on the answer sheet.

- 1 The circle graph below shows the items in the Lee's family budget. Which item costs the family the greatest amount of money?



- 2 Find the sum of 31.4 and 56.2.

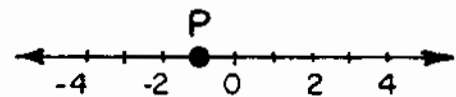
- 3 The bar graph below shows the number of home computer sales for each of four years. During which year were a total of exactly 500,000 home computers sold?



4 Add:

$$\begin{array}{r} 2472 \\ 798 \\ 26 \\ + 2314 \\ \hline \end{array}$$

- 5 What number is represented by point P on the number line below?



- 6 Colleen played in 20 basketball games and scored a total of 440 points. How many points did she average per game?

- 7 Write the numeral for sixty-three thousand twenty-nine.

- 8 Subtract 356 from 404.

- 9 Round 762 to the nearest hundred.

10 Multiply:

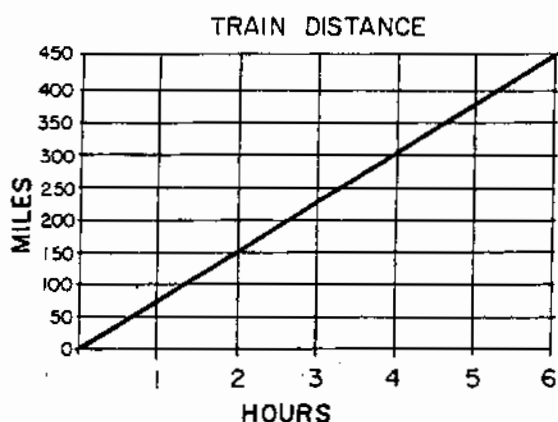
$$\begin{array}{r} 823 \\ \times 42 \\ \hline \end{array}$$

<p>11 Each side of a square measures 3 centimeters. How many centimeters are in the perimeter of the square?</p>	<p>16 Solve for x: $3x - 3 = 12$</p>
<p>12 Multiply:</p> $\begin{array}{r} 3.21 \\ \times 1.2 \\ \hline \end{array}$	<p>17 What is $\frac{3}{5}$ of 25?</p>
<p>13 Divide 2432 by 64.</p>	<p>18 Multiply: $(-12) \times (-4)$</p>
<p>14 Divide: $2.16 \div 0.06$</p>	<p>19 Add: $6 + (-8)$</p>
<p>15 A book weighs 1.25 kilograms. How many kilograms will 12 of these books weigh?</p>	<p>20 What is 25% of 24?</p>

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 graph below shows the distance traveled by a train over a 6-hour period. How long did the train take to travel 150 miles?



- (a) 1 hour (c) 3 hours
(b) 2 hours (d) 4 hours

- 22 Which is the closest estimate of the product of 337×29 ?

- (a) 600 (c) 6000
(b) 900 (d) 9000

- 23 What is the difference between \$47.93 and \$30.46?

- (a) \$7.47 (c) \$17.57
(b) \$17.47 (d) \$78.39

- 24 Allen's bank account balance was \$35.00. He made a deposit of \$20.00 and then made a withdrawal of \$25.00. What amount is in Allen's account now?

- (a) \$40.00 (c) \$30.00
(b) \$35.00 (d) \$10.00

- 25 Which is $\frac{27}{6}$ written as a mixed number?

- (a) 21 (c) $4\frac{3}{6}$
(b) $6\frac{3}{4}$ (d) 4

- 26 In the number 56,734, what is the value of the 6?

- (a) 6 (c) 600
(b) 60 (d) 6,000

- 27 Bev earns \$480 per week. She spends 15% of her salary on food. What is the total amount of money Bev spends on food?

- (a) \$465.00 (c) \$15.00
(b) \$72.00 (d) \$7.20

28 Joe had \$50. He spent \$20.25 for shoes, \$10.50 for a shirt, and \$5.75 for a tie. How much money does he have left?

- (a) \$13.50 (c) \$14.60
(b) \$14.50 (d) \$15.50

29 On a map, 1 centimeter represents 100 kilometers. How many kilometers are represented by 2.5 centimeters?

- (a) 0.025 (c) 25
(b) 2.5 (d) 250

30 Solve for x : $\frac{4}{9} = \frac{24}{x}$

- (a) 216 (c) 54
(b) 144 (d) 6

31 Ken received \$25.60 for 4 hours of work. What was Ken's hourly wage?

- (a) \$6.15 (c) \$21.60
(b) \$6.40 (d) \$102.40

32 The fraction $\frac{3}{4}$ is equivalent to

- (a) 0.75 (c) 3.4
(b) $1\frac{1}{3}$ (d) 25%

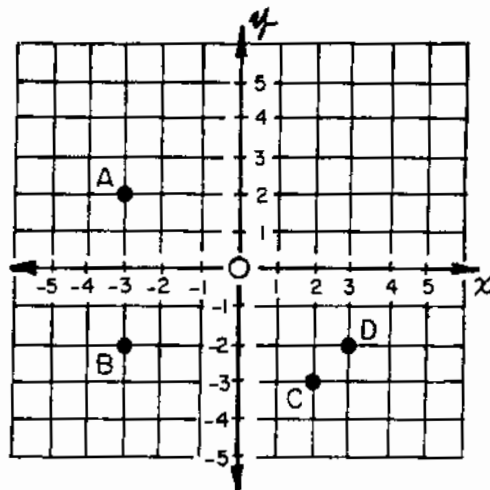
33 A multiple-choice test question has four choices for the answer. If Diana answers the question by guessing one of the choices, what is the probability that she selected the correct answer?

- (a) 1 (c) $\frac{1}{3}$
(b) $\frac{3}{4}$ (d) $\frac{1}{4}$

34 Which is the lowest common denominator of $\frac{2}{3}$, $\frac{1}{6}$, and $\frac{1}{8}$?

- (a) 12 (c) 48
(b) 24 (d) 144

35 On the graph below, which point has coordinates (3,-2)?



- (a) A (c) C
(b) B (d) D

36 Lynn bought a refrigerator by making a \$75 downpayment and twelve monthly payments of \$45 each. What was the total cost of Lynn's refrigerator?

- (a) \$465 (c) \$615
 (b) \$540 (d) \$690

37 What is the mode of the following numbers?

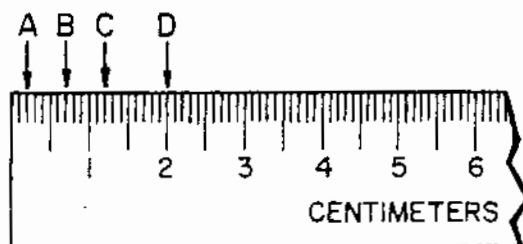
156, 132, 150, 156, 165, 170

- (a) 150 (c) 156
 (b) 153 (d) 170


38 The prime factors of a certain number are 2, 3, and 5. What is the number?

- (a) 30 (c) 11
 (b) 25 (d) 10

39 Which point on the ruler below represents 2 millimeters?



- (a) A (c) C
 (b) B (d) D

40 In the diagram below, each  represents 100 chocolate chip cookies sold. How many chocolate chip cookies were sold?



- (a) 425 (c) 475
 (b) 450 (d) 575

41 What is the value of $a^2 + 5$ when $a = 3$?

- (a) 64 (c) 14
 (b) 45 (d) 11

42 Which angle measures *less* than 90 degrees?

- (a) an acute angle
 (b) a right angle
 (c) a straight angle
 (d) an obtuse angle

43 Kristina needs \$80 to buy a bicycle. She has \$35. If she saves \$10 a week from her earnings, what is the *least* number of weeks she must work to save enough money?

- (a) 8 (c) 3
 (b) 5 (d) 4

44 Which mathematical sentence is represented by the statement below?

If 4 is increased by a certain number, the result is 60.

- (a) $N - 4 = 60$
- (b) $4 \times N = 60$
- (c) $4 + N = 60$
- (d) $N = 60 + 4$

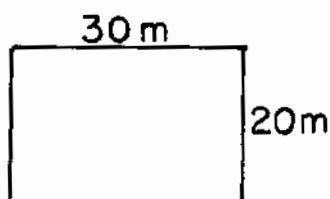
45 Greg bought a typewriter for \$210. If there is a 7% sales tax, how much tax will he pay?

- (a) \$14.70
- (b) \$30.00
- (c) \$224.70
- (d) \$240.00

46 Which set of fractions is ordered from largest to smallest?

- (a) $\frac{1}{4}, \frac{1}{2}, \frac{1}{3}$
- (b) $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$
- (c) $\frac{1}{3}, \frac{1}{2}, \frac{1}{4}$
- (d) $\frac{1}{2}, \frac{1}{4}, \frac{1}{3}$

47 What is the area of the rectangle below?



- (a) 50 m^2
- (b) 100 m^2
- (c) 200 m^2
- (d) 600 m^2

48 What is the value of $2 \times 4 + 3 \times 3$?

- (a) 12
- (b) 17
- (c) 33
- (d) 72

49 Which is equivalent to $\frac{a}{b} \div \frac{c}{d}$?

- (a) $\frac{a \times d}{b \times c}$
- (b) $\frac{a \times c}{b \times d}$
- (c) $\frac{a + c}{b + d}$
- (d) $\frac{a - c}{b - d}$

50 Martha took $5\frac{1}{2}$ hours to drive to the beach. If she left home at 1:45 p.m., what time did she arrive at the beach?

- (a) 6:15 p.m.
- (b) 6:45 p.m.
- (c) 7:15 p.m.
- (d) 7:45 p.m.

51 Which formula should be used to find the area of a circle?

- (a) $C = \pi d$
- (b) $P = 2\ell + 2w$
- (c) $A = \frac{bh}{2}$
- (d) $A = \pi r^2$

52 What is the total number of primes between 12 and 30?

- (a) 1
- (b) 5
- (c) 3
- (d) 7

53 The rates at a parking garage are:

\$0.50 for the first hour
\$0.15 for each additional
half-hour

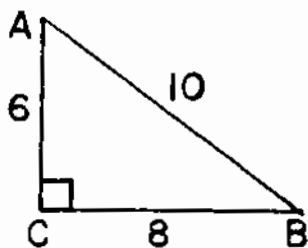
What is the cost of parking a car
at the garage for 3 hours?

- (a) \$0.80 (c) \$1.10
(b) \$0.95 (d) \$1.50

56 A videocassette recorder (VCR)
costs a store owner \$150. He
wants to make a 30% profit on his
cost. At what price should he sell
the VCR?

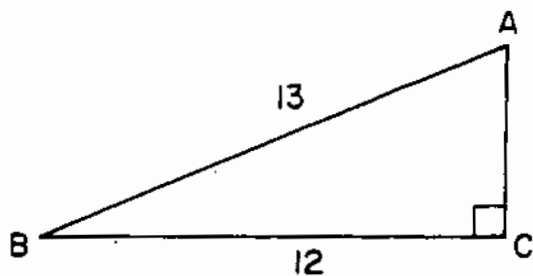
- (a) \$500 (c) \$195
(b) \$255 (d) \$180

54 In triangle ABC below, what is the
ratio of AC to CB ?



- (a) $\frac{3}{4}$ (c) $\frac{3}{5}$
(b) $\frac{4}{5}$ (d) $\frac{5}{3}$

57 Triangle ABC below is a right
triangle. Using the Pythagorean
theorem, $c^2 = a^2 + b^2$, what is
the length of side AC ?



- (a) 1 (c) 25
(b) 5 (d) $\sqrt{50}$

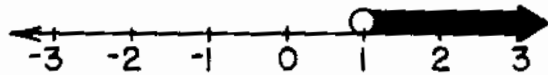
55 What is the sum of $\frac{7}{8}$ and $\frac{3}{8}$?

- (a) $\frac{77}{64}$ (c) $\frac{1}{2}$
(b) $\frac{10}{16}$ (d) $\frac{5}{4}$

58 What is the value of $6\frac{1}{4} - 2\frac{3}{4}$?

- (a) $3\frac{1}{4}$ (c) $4\frac{1}{4}$
(b) $3\frac{1}{2}$ (d) $4\frac{1}{2}$

59 Which inequality is shown by the graph below?



- (a) $x < 1$ (c) $x \leq 1$
(b) $x \geq 1$ (d) $x > 1$

60 Sarah sold \$120 worth of magazines during one month. She received \$30 as commission for her work. What is the rate of commission on her sales?

- (a) 25% (c) 36%
(b) 30% (d) 360%