

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 No. 2 pencil on the answer sheet.

1 Add: $34 + 623 + 89$

7 What is the mean (average) of 2, 3, 5, and 6?

2 From 2329 subtract 1574.

8 Multiply: 2.03×1.9

3 Solve for x : $4x - 1 = 19$

9 Divide 6,624 by 32.

4 Multiply: $\frac{4}{5} \times \frac{3}{7}$

10 Add:

$$\begin{array}{r} 8\frac{1}{3} \\ + 4\frac{1}{6} \\ \hline \end{array}$$

5 Find the perimeter of a square whose side has a length of 6.

11 Add: $0.21 + 5 + 6.3$

6 Round 2,761 to the nearest hundred.

12 Subtract 2.18 from 13.

13 What is the sum of -3 and -4 ?

14 Multiply: $(-7) \times (-5)$

15 A circle has a diameter of 12 meters. What is the length, in meters, of the radius of the circle?

16 Sheryll needs 28 apples. The apples are packed 6 to a bag. What is the *minimum* number of bags she must buy?

17 The ages of Joe's five uncles are 47, 41, 32, 27, and 23. What is the median age of Joe's uncles?

18 What is the least common denominator (LCD) of $\frac{1}{4}$, $\frac{1}{6}$, and $\frac{4}{9}$?

19 Subtract:

$$\begin{array}{r} 5 \\ 3\frac{1}{3} \\ \hline \end{array}$$

20 Given the formula $A = \frac{1}{2}h(b + c)$. If $h = 8$, $b = 5$, and $c = 2$, what is the value of A ?

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 No. 2 pencil on the answer sheet.

21 Which number represents four thousand three?

- (1) 4,003 (3) 4,300
(2) 4,030 (4) 43,000

22 Tom has \$62.17 in his checking account. If he writes checks for \$14.27 and \$8.26, what will be the total amount of money left in his account?

- (1) \$22.53 (3) \$39.64
(2) \$39.09 (4) \$84.70

23 Oranges cost 22 cents each. Jim buys 4 oranges and gives the cashier \$1.00. How much change should he receive?

- (1) 12¢ (3) 78¢
(2) 22¢ (4) 88¢

24 What is the place value of the digit 3 in the number 763,541?

- (1) units (3) hundreds
(2) tens (4) thousands

25 The table below shows sale prices for different sizes of automobile tires.

P-Metric Tire Size	Each	Sale Price for 2 Tires
P195/75R14	\$101.00	\$151.00
P205/75R14	105.00	157.00
P215/75R14	109.00	163.00
P205/75R15	109.00	163.00
P215/75R15	114.00	171.00
P225/75R15	119.00	178.00

Rhonda buys 2 tires, size P205/75R15, on sale. What is the cost of these two tires?

- (1) \$109.00 (3) \$218.00
(2) \$163.00 (4) \$326.00

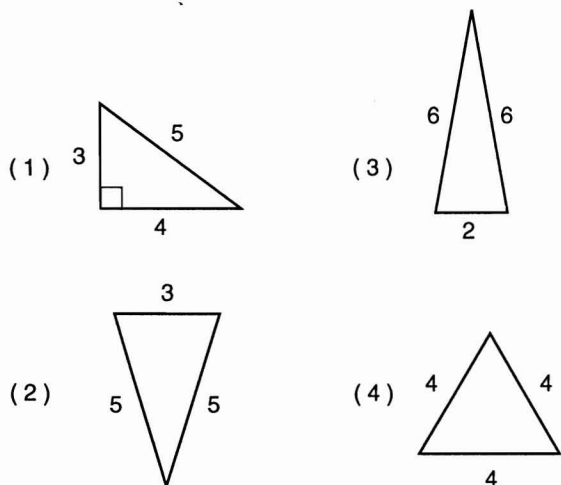
26 What is the largest number less than 40 that is divisible by 6?

- (1) 30 (3) 38
(2) 36 (4) 39

27 If the price of flour is 5 pounds for \$0.65, what is the cost of 1 pound?

- (1) \$0.13 (3) \$0.40
(2) \$0.15 (4) \$3.25

28 Which figure below is an equilateral triangle?



29 If Louise earns \$190.00 for working 40 hours at her job, what is her hourly rate of pay?

- (1) \$3.35 (3) \$4.75
(2) \$3.50 (4) \$5.00

30 Solve for x : $\frac{x}{4} = \frac{12}{16}$

- (1) 48 (3) 3
(2) 64 (4) 4

31 What is the value of 6×10^3 ?

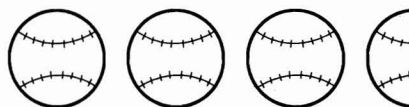
- (1) 20 (3) 600
(2) 180 (4) 6000

32 There are 7 balls in a box. The probability of picking a red ball is $\frac{2}{7}$. What is the probability of picking a ball that is *not* red?

- (1) $\frac{0}{7}$ (3) $\frac{5}{7}$
(2) $\frac{2}{7}$ (4) $\frac{7}{7}$

33 Each baseball below represents 100,000 fans.

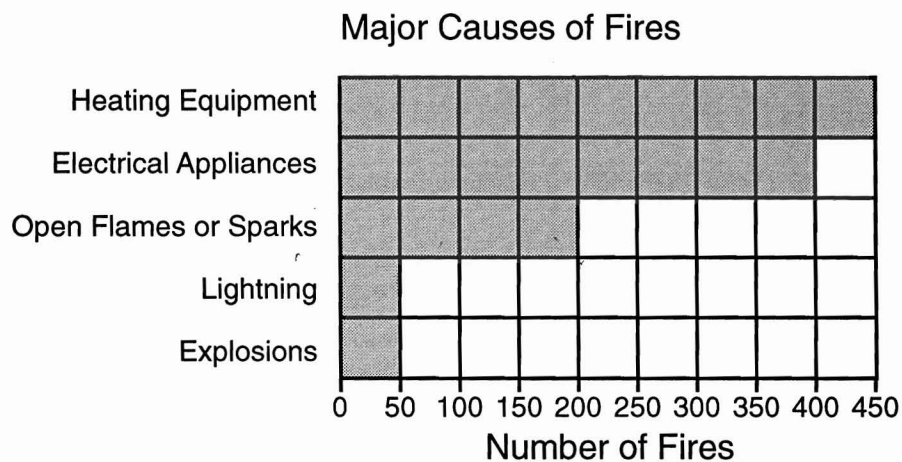
Baseball Fans



How many fans are represented?

- (1) 300,050 (3) 305,000
(2) 300,500 (4) 350,000

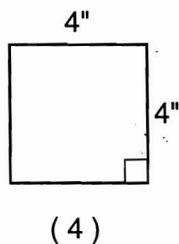
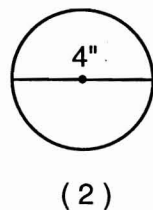
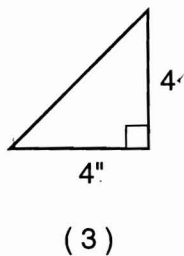
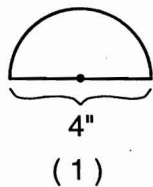
34 The graph below shows the major causes of house fires in a city during one year.



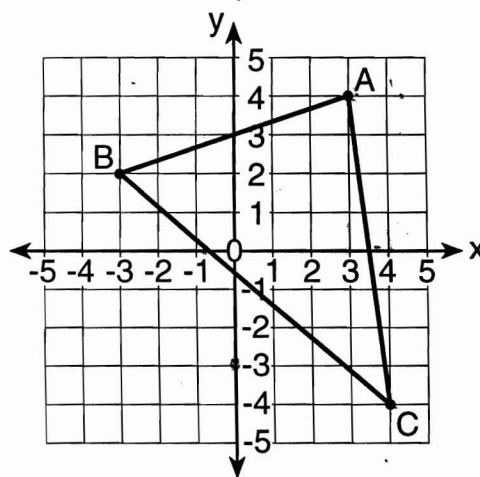
How many more fires were caused by open flames or sparks than by lightning?

- (1) 50
(2) 150
(3) 200
(4) 250

35 Which figure has the greatest area?



36 On the graph below, what are the coordinates of point B of triangle ABC?



- (1) $(-3, 2)$
(2) $(-3, -2)$
(3) $(-1, -3)$
(4) $(-1, 3)$

37 Shipping rates are:

\$0.32 for the first ounce

\$0.23 for each additional ounce

What is the cost of shipping a 6-ounce package?

- (1) \$0.55 (3) \$1.47
(2) \$1.15 (4) \$1.70

38 Which fraction is equal to 25%?

- (1) $\frac{1}{2}$ (3) $\frac{1}{5}$
(2) $\frac{1}{4}$ (4) $\frac{1}{25}$

39 Which is a prime number?

- (1) 13 (3) 18
(2) 15 (4) 21

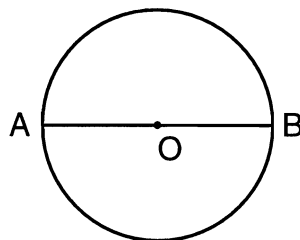
40 What is the greatest common factor (GCF) of 4, 8, and 12?

- (1) 6 (3) 8
(2) 2 (4) 4

41 An airplane took off at 11:30 a.m. and landed at 3:00 p.m. What was the total number of hours the plane was in the air?

- (1) $2\frac{1}{2}$ (3) $3\frac{1}{2}$
(2) 2 (4) $4\frac{1}{2}$

42 The center of the circle below is O .



What is line segment AB called?

- (1) diameter (3) arc
(2) radius (4) semicircle

43 What is a square root of 100?

- (1) 5 (3) 50
(2) 10 (4) 100

44 Which pair of numbers, when multiplied, would give the best estimate of the value of 11×19 ?

- (1) 10 and 20 (3) 5 and 15
(2) 15 and 20 (4) 10 and 15

45 What is $\frac{103}{5}$ written as a mixed number?

- (1) 23 (3) $20\frac{3}{103}$
(2) $2\frac{3}{5}$ (4) $20\frac{3}{5}$

50 On a map, $2\frac{1}{2}$ inches represents 50 miles.
How many miles are represented by 1 inch
on the map?

- (1) 10 (3) 50
(2) 20 (4) 125

46 Mr. Lee spent a total of \$999.99 for a video camera. If he made a deposit of \$150.00 and paid the balance in three equal payments, how much was each payment?

- (1) \$899.99 (3) \$283.33
(2) \$333.33 (4) \$150.00

51 Antonio purchased a computer priced at \$1,350. He must pay a 7% sales tax. What total price must Antonio pay for the computer?

- (1) \$94.50 (3) \$1,255.50
(2) \$108.00 (4) \$1,444.50

47 Which fraction has the greatest value?

- (1) $\frac{3}{10}$ (3) $\frac{3}{5}$
(2) $\frac{3}{4}$ (4) $\frac{3}{7}$

48 What is 20% of \$190?

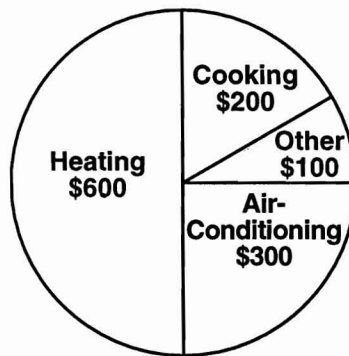
- (1) \$95 (3) \$28
(2) \$38 (4) \$20

49 Which set of integers is arranged from greatest value to least value?

- (1) $\{-1, -2, 1, 2\}$ (3) $\{2, 1, -2, -1\}$
(2) $\{-1, 1, -2, 2\}$ (4) $\{2, 1, -1, -2\}$

52 The circle graph below represents one family's energy budget.

ENERGY BUDGET



What percent of the budget do they spend on air-conditioning?

- (1) 25% (3) 3%
(2) 30% (4) 300%

53 What is the algebraic expression for five decreased by x ?

- (1) $5x$ (3) $x + 5$
(2) $x - 5$ (4) $5 - x$

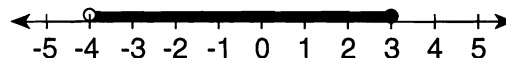
56 What is 72 centimeters expressed in meters?

- (1) 0.72 meter (3) 720 meters
(2) 7.2 meters (4) 7200 meters

54 Sally purchased a radio that had a discount of 30% from the original price of \$40. What was the sale price of the radio?

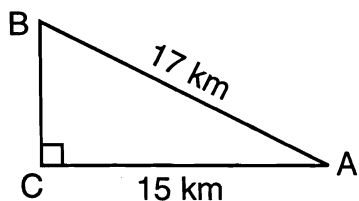
- (1) \$52 (3) \$28
(2) \$30 (4) \$12

57 Which inequality is represented by the graph below?



- (1) $-4 < x < 3$ (3) $-4 < x \leq 3$
(2) $-4 \leq x < 3$ (4) $-4 \leq x \leq 3$

55 As shown on the diagram below, ABC is a right triangle. The distance between city A and city B is 17 kilometers. The distance between city A and city C is 15 kilometers.



What is the direct distance from city B to city C ?

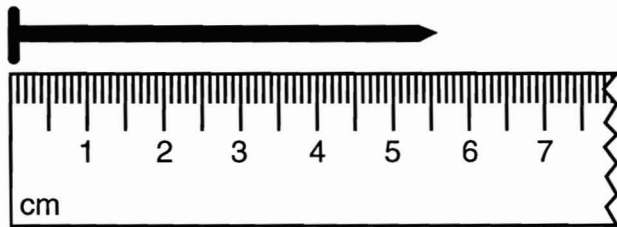
- (1) 8 km (3) 32 km
(2) 2 km (4) 64 km

58 Evaluate: $9 + 7 \times 4 - 1$

- (1) 30 (3) 48
(2) 36 (4) 63

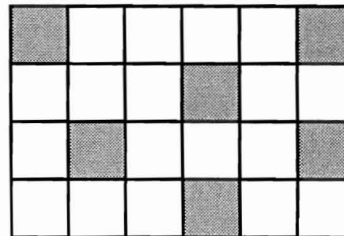
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59 How long is the nail in the diagram below?



- (1) 5 mm (3) 56 cm
(2) 56 mm (4) 60 cm

60 What percent of the figure below is shaded?



- (1) 6% (3) 25%
(2) 20% (4) 75%