

Middle School

Math

Practice Test

1. Choose another name for : \$105.38

- A Ten thousand five hundred thirty – eight dollars.
- B One hundred five dollars and thirty – eight cents.
- C One hundred fifty dollars and thirty – eight cents.
- D Fifteen dollars and thirty – eight cents.
- E ?

4. SUBTRACT : $\begin{array}{r} \$530.00 \\ - 468.75 \\ \hline \end{array}$

- A \$171.25
- B \$31.25
- C \$61.25
- D \$71.25
- E ?

2. ADD : $\begin{array}{r} 397 \\ 468 \\ + 245 \\ \hline \end{array}$

- A 1,100
- B 1,000
- C 91,920
- D 1,110
- E ?

5. SUBTRACT : $29,836 - 15,016 = \square$

- A 14,826
- B 4,820
- C 4,840
- D 14,820
- E ?

3. ADD : $\$575.95 + \$129.95 = \square$

- A \$705.90
- B \$446.90
- C \$454.00
- D \$656.80
- E ?

6. MULTIPLY : $\begin{array}{r} 78 \\ \times 67 \\ \hline \end{array}$

- A 4,286
- B 5,226
- C 1,014
- D 4,386
- E ?

7. **MULTIPLY:** $472 \times 396 = \square$

- A 186,912
- B 196,902
- C 187,812
- D 197,012
- E ?

10. **DIVIDE:** $98 \overline{)7,886}$

- A 91 R3
- B 8 R6
- C 8 R46
- D 80 R46
- E ?

8. **DIVIDE:** $9 \overline{)496}$

- A 10 R6
- B 50 R6
- C 55 R1
- D 66 R1
- E ?

11. Choose another name for $\frac{7}{8}$.

- A $\frac{24}{28}$
- B $\frac{21}{24}$
- C $\frac{14}{18}$
- D $\frac{10}{11}$
- E ?

9. **DIVIDE:** $37 \overline{)2,368}$

- A 74
- B 704
- C 64
- D 604
- E ?

12. Rename $\frac{24}{36}$ in simplest form (lowest terms)

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

13. Choose a common denominator

for $\frac{5}{6}$ and $\frac{1}{4}$.

- A 12
- B 6
- C 2
- D 10
- E ?

16. ADD: $3\frac{2}{5} + 2\frac{1}{5} = \square$

- A $5\frac{3}{5}$
- B $5\frac{3}{10}$
- C $5\frac{1}{5}$
- D $5\frac{2}{10}$
- E ?

14. Choose the symbol that makes

the sentence true. $\frac{5}{6} \bigcirc \frac{7}{9}$

- A $<$
- B $>$
- C $=$
- D \neq
- E ?

17. SUBTRACT: $10\frac{5}{12} - 4\frac{5}{12} = \square$

- A $6\frac{5}{12}$
- B $6\frac{10}{12}$
- C 6
- D $6\frac{1}{12}$
- E ?

15. Choose another name for $\frac{37}{8}$.

- A $\frac{8}{37}$
- B $4\frac{5}{37}$
- C $4\frac{1}{8}$
- D $4\frac{5}{8}$
- E ?

18. ADD: $5\frac{2}{3} + 2\frac{1}{4} = \square$

- A $7\frac{11}{12}$
- B $7\frac{3}{7}$
- C $3\frac{1}{4}$
- D $7\frac{3}{12}$
- E ?

19. **ADD:** (Rename in simplest form)

$$7\frac{3}{5} + 4\frac{2}{3} = \square$$

- A $11\frac{5}{8}$
- B $12\frac{4}{15}$
- C $11\frac{19}{15}$
- D $11\frac{1}{2}$
- E ?

22. **MULTIPLY:** (Rename in simplest form)

$$4\frac{2}{7} \times 2\frac{4}{5} = \square$$

- A $8\frac{8}{35}$
- B $1\frac{26}{49}$
- C 12
- D $\frac{1}{12}$
- E ?

20. **SUBTRACT:** $8\frac{1}{7} - 5\frac{2}{3} = \square$

- A $3\frac{11}{21}$
- B $2\frac{1}{21}$
- C $2\frac{10}{21}$
- D $3\frac{10}{21}$
- E ?

23. **MULTIPLY:** (Rename in simplest form)

$$\frac{3}{4} \times 8 = \square$$

- A $\frac{3}{32}$
- B $\frac{24}{32}$
- C $\frac{1}{6}$
- D 6
- E ?

21. **MULTIPLY:** (Rename in simplest form)

$$\frac{6}{7} \times \frac{1}{3} = \square$$

- A $\frac{2}{7}$
- B $\frac{7}{10}$
- C $2\frac{4}{7}$
- D $\frac{3}{7}$
- E ?

24. **DIVIDE:** (Rename in simplest form)

$$\frac{5}{8} \div \frac{3}{4} = \square$$

- A $\frac{15}{32}$
- B $\frac{5}{6}$
- C $\frac{2}{3}$
- D $\frac{1}{4}$
- E ?

25. *DIVIDE*: (Rename in simplest form)

$$1\frac{2}{3} \div 3\frac{5}{6} = \square$$

- A $2\frac{3}{10}$
- B $\frac{10}{23}$
- C $6\frac{7}{18}$
- D $\frac{4}{5}$
- E ?

28. Choose another name for $2\frac{3}{4}$.

- A 2.34
- B 2.43
- C 2.7
- D 2.75
- E ?

26. *DIVIDE*: (Rename in simplest form)

$$\frac{5}{6} \div 5 = \square$$

- A $4\frac{1}{6}$
- B 6
- C $\frac{1}{6}$
- D $\frac{6}{25}$
- E ?

29. *ADD* $4.3 + 6 + .091 + 17.72 = \square$

- A 22.711
- B 28.111
- C 19.12
- D 12.982
- E ?

27. Choose the symbol that makes the sentence true.

$$4.73 \bigcirc 4.703$$

- A $>$
- B $<$
- C $=$
- D \emptyset
- E ?

30. *SUBTRACT*: $35 - 14.96 = \square$

- A 21.96
- B 14.61
- C 14.29
- D 20.04
- E ?

31. **MULTIPLY:** $\$18.95 \times .4 = \square$

- A \$75.80
- B \$758.00
- C \$7,580.00
- D \$7.58
- E ?

34. **FIND:** $60\% \text{ of } 600 = \square$

- A 10
- B 36
- C 360
- D 540
- E ?

32. **DIVIDE:** $\$129.42 \div .03 = \square$

- A \$43.14
- B \$4,314.00
- C \$4.314
- D \$.4314
- E ?

35. *Find the simple interest on \$2,000 borrowed for one year at 10%.*

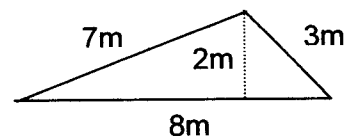
- A \$20,000.00
- B \$200.00
- C \$20.00
- D \$2.00
- E ?

33. *Find another name for $\frac{5}{8}$.*

- A 58%
- B $1\frac{3}{5}\%$
- C $62\frac{1}{8}\%$
- D 62.5%
- E ?

36. *Find perimeter of the triangle.*

- A 20 m
- B 24 m
- C 56 m
- D 18 m
- E ?



37. Find the length of the paper clip.

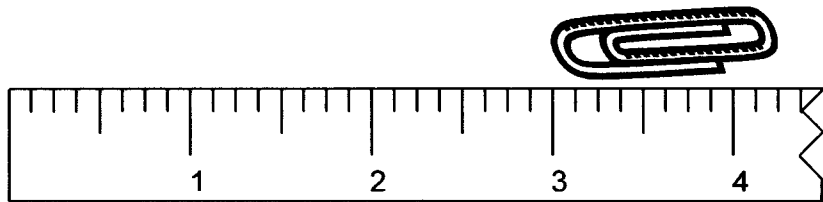
A $4\frac{1}{4}$ inches

B $1\frac{1}{4}$ inches

C $1\frac{1}{2}$ inches

D 3 inches

E ?



38. Find the area of the rectangle.

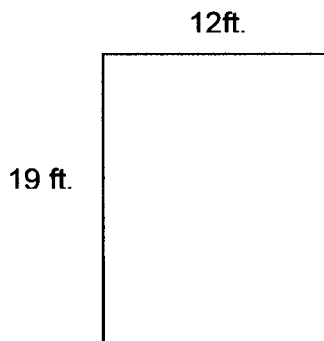
A 228 sq. ft.

B 31 sq. ft.

C 62 sq. ft.

D 114 sq. ft.

E ?



39. Choose the correct answer.

A 24 inches

B 1 inch

C 144 inches

D 36 inches

E ?

12 feet = _____ inches

40. Choose the correct answer.

- A 41 oz.
- B 83 oz.
- C 53 oz.
- D 35 oz.
- E ?

$$3 \text{ lb. } 5 \text{ oz.} = \underline{\hspace{1cm}} \text{ oz.}$$

41. Choose the correct answer.

- A 9 gal. 1 qt.
- B 4 gal. 3 qts.
- C 2 gal. 3 qts.
- D 3 gal. 4 qts.
- E ?

$$19 \text{ qts.} = \underline{\hspace{1cm}} \text{ gal. } \underline{\hspace{1cm}} \text{ qts.}$$

42. Choose the correct answer.

- A 11 hrs. 2 min.
- B 2 hrs.
- C 1 hr. 12 min.
- D 1 hr. 52 min.
- E ?

$$112 \text{ min.} = \underline{\hspace{1cm}} \text{ hrs. } \underline{\hspace{1cm}} \text{ min.}$$

43. Choose the correct answer.

A 6

B $13\frac{1}{2}$

C $9\frac{2}{3}$

D $8\frac{1}{3}$

E ?

Linda is making a 9 – layer birthday cake. She needs

$\frac{2}{3}$ of a pound of sugar for each layer of frosting. How

many pounds of sugar does she need?

44. Choose the correct answer.

A 18

B 6

C 16

D 9

E ?

Jim is $\frac{3}{4}$ as old as his brother. If Jim is 12 years old, how old is his brother?

45. Choose the correct answer.

A $\frac{14}{15}$

B $\frac{1}{15}$

C $\frac{1}{5}$

D $\frac{13}{14}$

E ?

Elton Garret Junior High School has 750 students.

Last Monday, 50 students were absent. What fractional part of the student body was present?

46. Choose the correct answer.

- A \$32.00
- B \$28.56
- C \$20.23
- D \$7.00
- E ?

During the aluminum can drive Scout Troup #320 collected 2,856 cans. If they received \$.17 per pound and it took 24 cans to make a pound, how much money did they receive?

47. Use the table below to answer the following problem.

Which city has the greatest difference in temperature for June and December?

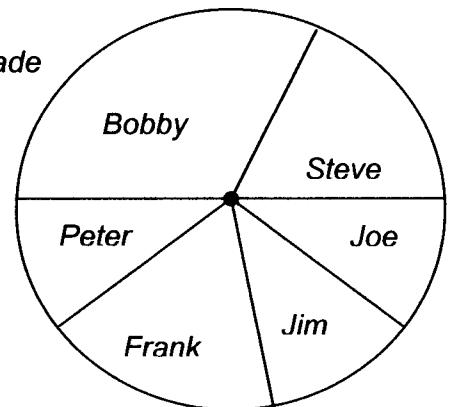
- A Buffalo
- B Las Vegas
- C San Francisco
- D Honolulu
- E ?

City	Average Temperature June	Average Temperature December
Buffalo	73°	30°
Las Vegas	95°	60°
San Francisco	57°	51°
Honolulu	78°	74°

48. Use the circle graph below to answer the following problem.

What percent of the points scored were made by Bobby and Steve combined?

- A 10%
- B 15%
- C 25%
- D 50%
- E ?



49. Choose the best estimate for the following problem.

- A \$5,200
- B \$1,300
- C \$7,800
- D \$2,000
- E ?

The regular price of a truck is \$6,530. During a sale, it is advertised at a discount of 20%. ESTIMATE the amount of discount on the truck.

50. Choose the best estimate for the following problem.

- A \$60.00
- B \$30.00
- C \$80.00
- D \$70.00
- E ?

The regular price of a coat is \$89.25. During a sale, it is advertised at $\frac{1}{3}$ off. ESTIMATE the sale price of the coat.

51. Choose the set that shows fractions ordered from least to greatest.

A $\left\{ \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{7}{10} \right\}$

B $\left\{ \frac{2}{3}, \frac{1}{2}, \frac{3}{4}, \frac{7}{10} \right\}$

C $\left\{ \frac{1}{2}, \frac{2}{3}, \frac{7}{10}, \frac{3}{4} \right\}$

D $\left\{ \frac{7}{10}, \frac{3}{4}, \frac{2}{3}, \frac{1}{2} \right\}$

E ?

54. Choose the number that is written in scientific notation.

A 93×10

B 9.3×10^7

C 9.3×7^{10}

D $.93 \times 10^7$

E ?

52. Choose the additive inverse of $-\frac{3}{4}$.

A $-\frac{4}{3}$

B $\frac{4}{3}$

C $-\frac{3}{4}$

D $\frac{3}{4}$

E ?

55. Choose .000075 written in scientific notation.

A 7.5×10^{-5}

B 75×10^{-6}

C 7.5×10^5

D 75×10^6

E ?

53. Choose the number whose prime factorization is $5^2 \cdot 3^2 \cdot 2$.

A 120

B 450

C 180

D 30

E ?

56. Solve: $-|8|$

A 8

B $\frac{1}{8}$

C -8

D $\sqrt{8}$

E ?

57. Solve:

$$-\sqrt{\frac{9}{100}}$$

- A $-\frac{3}{10}$
 B $\frac{3}{10}$
 C $-\frac{9}{100}$
 D $\frac{9}{100}$
 E ?

60. Solve:

$$150\% \text{ of } \underline{\hspace{1cm}} = 75$$

- A 50
 B 300
 C $112\frac{1}{2}$
 D 200
 E ?

58. Solve:

$$160\% \text{ of } 80 = \square$$

- A 168
 B 140
 C 60
 D 128
 E ?

61. Solve:

$$8.5\% \text{ of } 60 = \square$$

- A 510
 B 5.1
 C 78
 D 68.5
 E ?

59. Solve:

$$66\frac{2}{3}\% \text{ of } 186 =$$

- A 248
 B 31
 C 124
 D 62
 E ?

62. Solve for x:

$$\underline{x}\% \text{ of } 600 = 480$$

- A $\frac{4}{5}$
 B 125
 C 120
 D 80
 E ?



63. *ADD:* $-13 + -17 + 12 = \square$

- A -18
- B 18
- C 42
- D -42
- E $?$

66. *DIVIDE:* $\frac{-175}{-7}$

- A -25
- B 25
- C -252
- D 168
- E $?$

64. *SUBTRACT:* $-11 - -13 = \square$

- A -24
- B 24
- C 2
- D -2
- E $?$

67. *ADD:* $6.03 + -.147 = \square$

- A 5.883
- B 4.56
- C 6.1777
- D -4.56
- E $?$

65. *MULTIPLY:* $-4 \times -7 \times 5 = \square$

- A -7
- B $+7$
- C -140
- D 140
- E $?$

68. *SUBTRACT:* $4\frac{1}{8} - -2\frac{3}{5} = \square$

- A $2\frac{2}{3}$
- B $1\frac{21}{40}$
- C $6\frac{29}{40}$
- D $-1\frac{21}{40}$
- E $?$

69. MULTIPLY: $-2\frac{1}{2} \times -4\frac{3}{4} = \square$

A $-11\frac{7}{8}$

B $-8\frac{3}{8}$

C $11\frac{7}{8}$

D $8\frac{3}{8}$

E ?

72. FIND: $\frac{12^{10}}{12^2} = \square$

A 12^5

B 1^8

C 1^5

D 12^8

E ?

70. DIVIDE: $-.5472 \div 1.8 = \square$

A .34

B +.304

C -.34

D -.304

E ?

73. FIND: $(10^2)^4$

A 100,000,0000

B 80

C 1,000,000

D 100

E ?

71. MULTIPLY:

$$4^3 \bullet 4^3 = \square$$

A 16^9

B 4^6

C 4^9

D 16^6

E ?

74. FIND:

$$\underline{\hspace{1cm}} - 24 = 24$$

A 0

B 48

C 1

D -1

E ?

75. *FIND:*

A -5

B 5

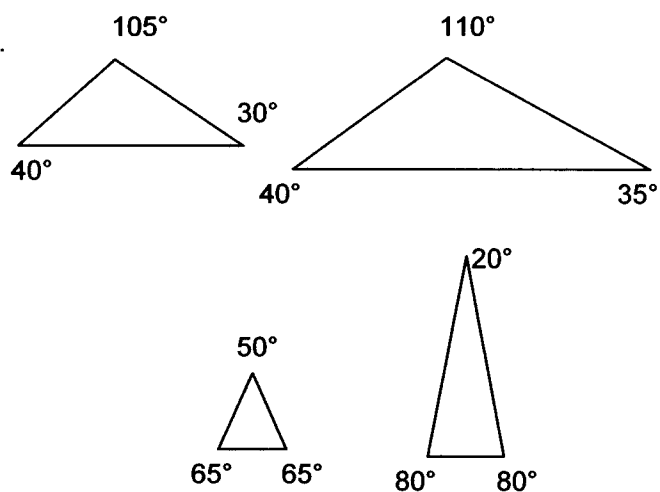
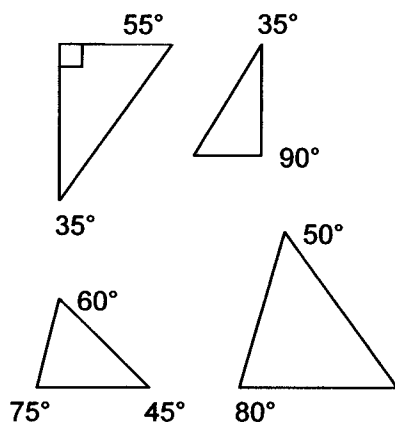
C -125

D 125

E ?

$$\underline{\hspace{1cm}} \div -5 = -25$$

76. Choose the pair of similar triangles.



77. Find the length of side *a*.

$$(a^2 + b^2 = c^2)$$

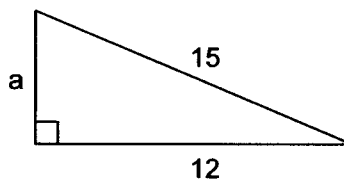
A 3

B 27

C 9

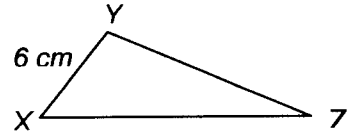
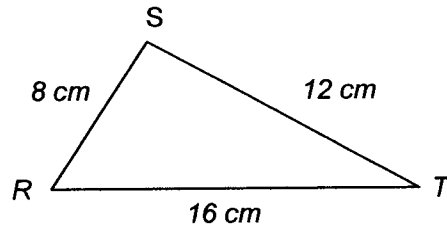
D 81

E ?



78. Given $\triangle RST \sim \triangle XYZ$, find the length of YZ.

- A 9 cm
- B 10 cm
- C 15 cm
- D 4 cm
- E ?



79. Solve the following problem.

- A 170 inches
- B $8\frac{1}{2}$ inches
- C 17 inches
- D 17 miles
- E ?

On a map, $\frac{1}{2}$ inch represents 5 miles.

Find the number of inches representing 85 miles.

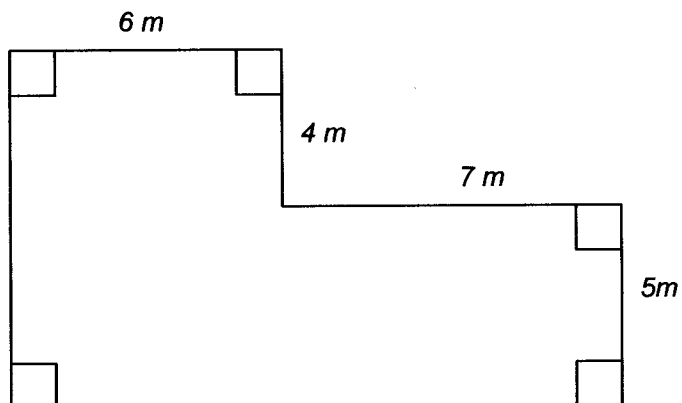
80. Solve the following problem.

- A 16 ft.^2
- B 144 ft.^2
- C 36 ft.^2
- D 12 ft.^2
- E ?

4 sq. yd. = _____ sq. ft.

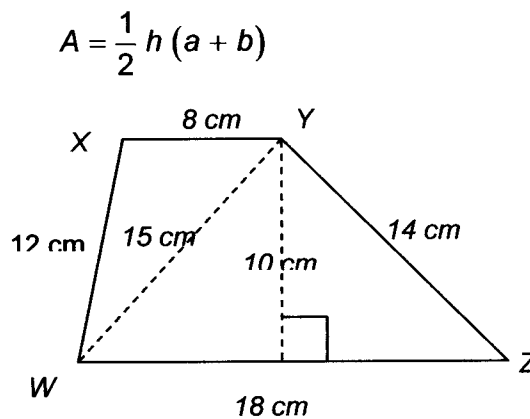
81. Find the perimeter of the polygon.

- A 44 m
- B 22 m
- C 88 m
- D 127 m
- E ?



82. Find the area of trapezoid WXYZ.

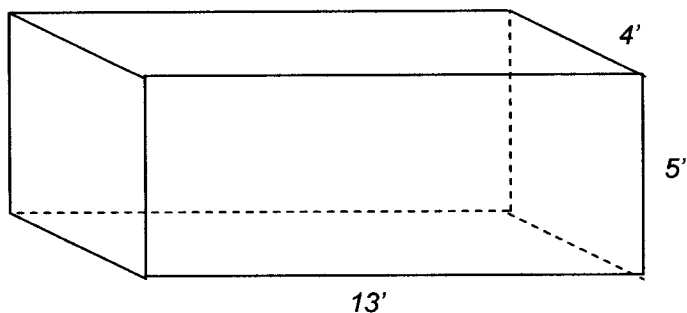
- A 80 cm^2
- B 120 cm^2
- C 130 cm^2
- D 180 cm^2
- E ?



$$A = \frac{1}{2} h (a + b)$$

83. Find the volume of the rectangular prism.

- A 52 ft^3
- B 85 ft^3
- C 117 ft^3
- D 260 ft^3
- E ?

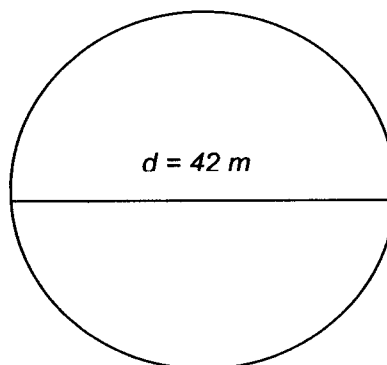


84. Find the area of the circle.

$$A = \pi r^2$$

$$\pi = \frac{22}{7}$$

- A 66 m^2
- B $1,386 \text{ m}^2$
- C $5,544 \text{ m}^2$
- D 132 m^2
- E ?

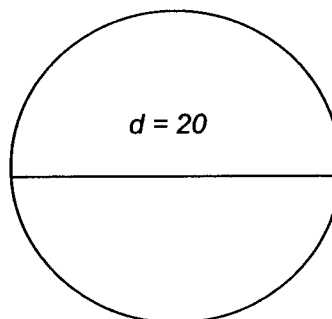


85. Find the circumference of the circle.

$$C = \pi d$$

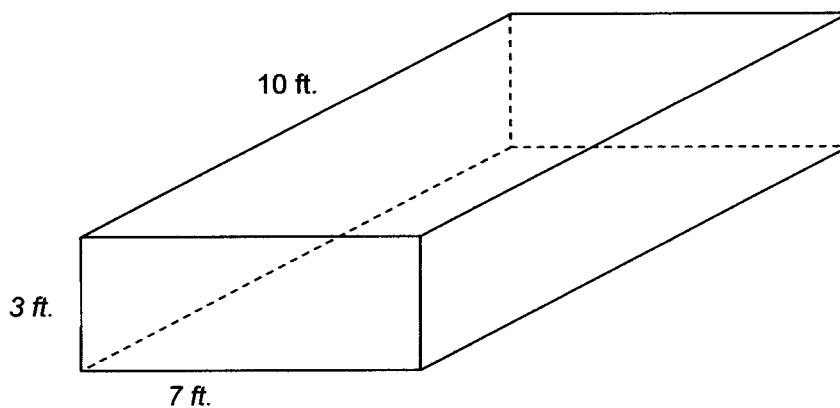
$$\pi = 3.14$$

- A 23.15
- B 62.80
- C 6,280
- D 2,314
- E ?



86. Find the surface area of this rectangular solid.

- A 210 ft.^2
- B 172 ft.^2
- C 242 ft.^2
- D 121 ft.^2
- E ?



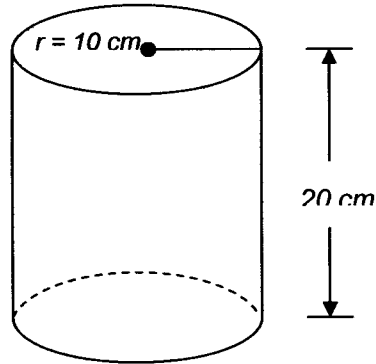


87. Find the total surface area of the cylinder.

$$A = 2\pi rh + 2\pi r^2$$

$$\pi = 3.14$$

- A $1,884 \text{ cm}^2$
- B $1,381.6 \text{ cm}^2$
- C $1,256 \text{ cm}^2$
- D 628 cm^2
- E ?



88. Choose the best estimate for the following problem.

- A \$3.00
- B \$16.00
- C \$5.00
- D \$4.00
- E ?

George bought a belt for \$7.49; a shirt for \$6.49; and two pair of aocks for 98¢ each.
How much change did he receive from \$20.00?

89. Choose the best estimate for the following problem.

- A 6 inches
- B 12 inches
- C 10 inches
- D 60 inches
- E ?

A rope 58.7 inches long is cut into 5 pieces,
all the same length. How long is each piece?

90. Choose the best estimate for the following problem.

- A 200
- B 1,200
- C 300
- D 1,300
- E ?

Approximately $\frac{1}{8}$ of the students at Highland Park Jr. High School ride the bus to school. If there are 1,543 students, how many walk to school?

91. Solve the following problem.

- A 30 gallons
- B 67.5 gallons
- C 240 gallons
- D 9 gallons
- E ?

John drove 38 miles, 62 miles, 113 miles, and 57 miles. His car gets 30 miles per gallon of gas. How much gas did he use?

92. Solve the following problem.

- A \$72.00
- B \$51.00
- C \$24.00
- D \$30.00
- E ?

The student council earns 30% of the sales from the magazine drive. Mr. Hick's home room sold the following subscriptions: 7 at \$5.00 each; 3 at \$7.00 each; 5 at \$7.50 each; and 9 at \$8.50 each. How much money did the student council earn from these sales?

93. Solve the following problem.

- A \$7.50
- B \$4.50
- C \$15.00
- D \$5.00
- E ?

Sam can buy 12 cans of corn for \$3.00.
How much will 20 cans cost?

94. Solve the following problem.

- A \$82.50
- B \$30.80
- C \$85.80
- D \$80.85
- E ?

Linda bought 3 dresses at \$27.50 each.
The sales tax is 4%. Find the total price
Linda paid for the dresses.

95. Solve the following problem.

- A 24
- B 23
- C 52
- D 53
- E ?

How many books $1\frac{1}{2}$ inch wide can be placed
on a shelf measuring 35 inches?

96. Solve the following problem.

A 10 hours

B 5 hours

C 3 hours

D 7 hours

E ?

During an average day Alice spends $\frac{1}{4}$ of her time at school, $\frac{1}{12}$ of her time eating meals, $\frac{1}{24}$ doing homework, and $\frac{1}{8}$ of the time at play. How many hours are spent at school and on homework combined?

97. Solve the following problem.

A total of 1,200 students voted in the student council elections. How many votes did the winner receive?

A 240

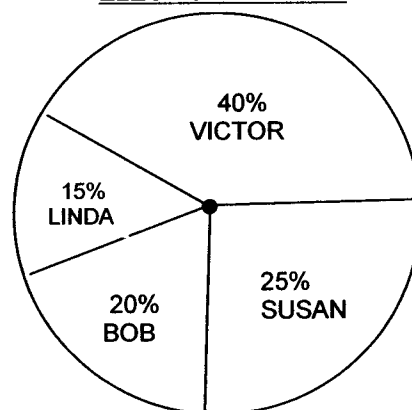
B 480

C 300

D 180

E ?

ELECTION RESULTS



98. Use the circle graph to answer the following problem.

The state of Nevada's budget is \$150 million a year. How much more money is spent on education than on highways?

A \$15 million

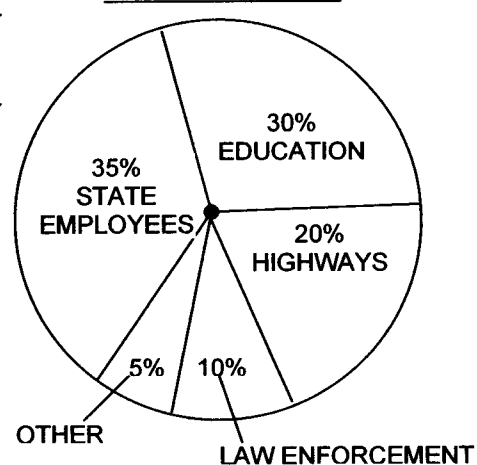
B \$45 million

C \$30 million

D \$10 million

E ?

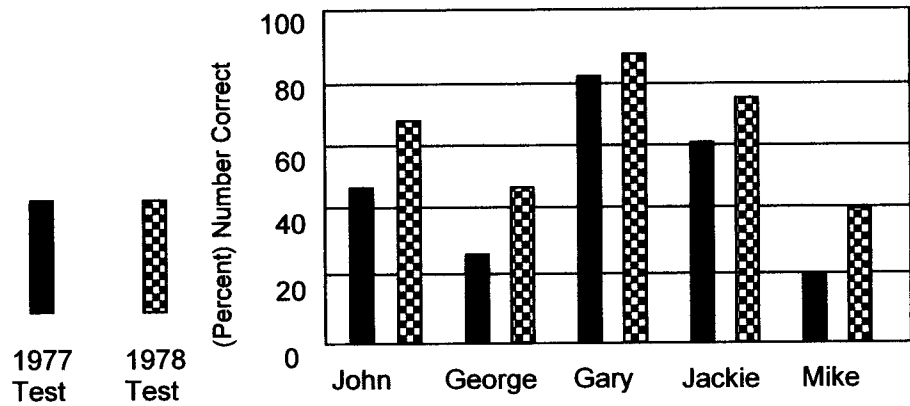
NEVADA'S BUDGET



99. Use the double – bar graph to answer the following problem.

Which student's score shows the least
amount of increase from 1977 to 1978?

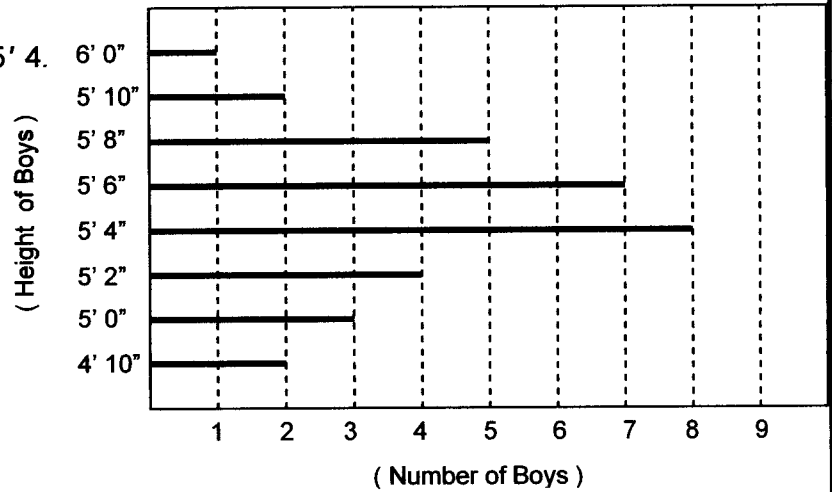
- A Jackie
- B Mike
- C Gary
- D George
- E ?



100. Use the bar graph to answer the following problem.

Find the number of boys under 5' 4".

- A 25
- B 17
- C 9
- D 15
- E ?



END OF TEST