

A furniture dealer purchased a desk for \$150 and then set the selling price equal to the purchase price plus a markup that was 40 percent of the selling price. If the dealer sold the desk at the selling price, what was the amount of the dealer's gross profit from the purchase and the sale of the desk?

- ☐ \$40
- ☒ \$60
- ☐ \$80
- ☐ \$90
- ☐ \$100

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Score Interval	Number of Scores
50–59	2
60–69	10
70–79	16
80–89	27
90–99	18

The table above shows the distribution of test scores for a group of management trainees. Which score interval contains the median of the 73 scores?

- ☐ 60–69
- ☒ 70–79
- ☐ 80–89
- ☐ 90–99
- ☐ It cannot be determined from the information given.

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For which of the following functions is $f(a + b) = f(a) + f(b)$ for all positive numbers a and b ?

- ☐ $f(x) = x^2$
- ☐ $f(x) = x + 1$
- ☒ $f(x) = \sqrt{x}$
- ☐ $f(x) = \frac{2}{x}$
- ☐ $f(x) = -3x$

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In the arithmetic sequence $t_1, t_2, t_3, \dots, t_n, \dots, t_1 = 23$ and $t_n = t_{n-1} - 3$ for each $n > 1$. What is the value of n when $t_n = -4$?

- ☐ -1
- ☐ 7
- ☒ 10
- ☐ 14
- ☐ 20

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