Answer

Solution: 1. E. -160 $(25)^{0} - (-2)^{4} + (-3^{4}) - (-8)^{2} = ?$ 1 - (+16) + (-81) - (+64) = $\frac{1}{14\%} \times n = 25$ Convert ¹/₄% × n = 25Convert ¹/₄% · n = 25 $1 - 16 - 18 - 64 = -160 \checkmark$ 2. A. –75 $-2^{2} - (-9)^{2} - (-3^{2}) + 15^{0} = ?$ -4 - (+18) - (-9) + 1 =-4 - 81 + 9 + 1 =-85 + 9 + 1 = $-76 + 1 = -75 \checkmark$ 3. D. 3750 Of $\rightarrow x$ Is > TreN 20% of 30% of X is 225 $20\% \times 30\% \times X = 225$ $0.2 \times 0.3 \times X = 225$ 0.06X = 225X = 225/0.06X = 3750**√** 4. B. the area is 4 times its original. Let n be the sides of the squire perimeter $n \times n = area$ $(n^2)/(n+n+n+n) = X/(n+n+n+n)^2$ $(n^2)(4n)^2 = X(4n)$ $[(n^2)(4n)^2]/(4n) = X$ n = 10,000 $(n^2)(4n) = X$ Checking: Therefore, if the perimeter of a squire is doubled, the area is 4 times its original. 5. C. 10,000 One forth percent of a number is 25. Q: what is a number? NOTE: 25 = 25of \rightarrow "x" Is \rightarrow "="

Let n be our number One forth percent $\rightarrow \frac{1}{4}\%$ Of a number $\rightarrow \times n$ $\frac{1}{4}\% = 0.25\%$ PERCENT $0.25\% \div 100\% = 0.0025$ Now, let's proceed: $\frac{1}{4}\% \times n = 25$ 0.0025 n = 25n = 25/0.0025 $\frac{1}{4}\% \times n = 25$ $\frac{1}{4}\% \times 10,000 = 25$ $0.0025 \times 10.000 = 25$

4 + 3 = 7 $56 \div 7 = 8$ $4 \times 8 = 32 \div 2 = 16 \text{ cm}$ $3 \times 8 = 24 \div 2 = 12$ cm

50. C. 11

Four consecutive integers could be represented as n, n+1, n+2,

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8 + 3 = 11
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51. B. 28

A baseball pitcher won 80% of the games he pitched. If he pitched 35 ballgames, how many games did he win?80% of 35 won the game

 $0.8 \times 35 = 28\checkmark$

52. C. 75%

Jerry, an electrician, worked 9 months out of the year. What percent of the year did he work?

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9 is what percent of 12
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 $9 = n \times 12$

9/12 = n

0.75 = n

 $0.75 \times 100\% = 75\%$

53. A. 60%

There are 40 students in a class. Sixteen of those students are boys. What percent of the class are girls?

B + G = 4016 + G = 40G = 40 - 16G = 2424 is what percent of 40 $24 = n \times 40$ 4n = 32 n = 32 n = 8 4n = 32 n = 8 54. D. 80% Analie took a mathatement is the second sAnalie took a math test and got 48 correct and 12 incorrect answers. What was the percentage of correct answers? 48 is what percent of 60 55. B. 250% 120 is what percent of 48? $120 = n \times 48$ 120/48 = n2.5 = n $2.5 \times 100\% = 250\%$ \checkmark 56. D. 60 120% of what number is 72? $120\% \times n = 72$ $1.2 \times n = 72$ n = 72/1.2 $n = 60 \checkmark$

57. C. 30 10% of 300 is what number? $10\% \times 300 = n$ $0.1 \times 300 = n$ $30 = n \checkmark$