| Mental Math <br> Grade 12 Essential Mathematics (40S) |  |
| :---: | :---: |
| General Questions | Answers |
| 1. What is the median of the following list of numbers? $4,5,7,9,10,12$ <br> 2. Evaluate: $12+3-5+3+53$ | 8 66 |
| 3. Which two terms are the same value? $6,4, \frac{18}{6}, \frac{18}{3}, \frac{18}{2}, \frac{8}{3}$ | 6 and $\frac{18}{3}$ |
| 4. Beth spends $60 \%$ of her monthly income on household expenses, including groceries. Of her remaining income, she puts $50 \%$ into savings. If Beth's monthly income is $\$ 3400$, how much money does she have left after groceries and savings? | \$680 |
| 5. What is one-half of $\frac{1}{7}$ ? | $\frac{1}{14}$ |
| Unit Questions |  |
| Use the following set of data to answer questions 6 to 8 . <br> Data: 8, 8, 9, 10, 12, 13 |  |
| 6. Find the mean for the set of data above. | 10 |
| 7. Find the median for the set of data above. | 9.5 |
| 8. Find the mode for the set of data above. | 8 |
| Other Questions |  |
| 9. |  |
| 10. |  |




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| :---: | :---: |
| General Questions | Answers |
| 1. Evaluate: $5 \times 17 \times 20$ | 1700 |
| 2. You went to the grocery store to pick up a few items. The total came to $\$ 21.37$. You gave the cashier $\$ 40$. What should your change be? | \$18.63 |
| 3. How many days are in 15 weeks? | 105 |
| 4. In the months of November, December, and January, it snowed 14 mm , 60 mm , and 76 mm respectively. What is the mean amount of snow that fell each month? | 50 mm |
| 5. Complete the pattern: $7,14,21,28$,___, | 35,42 |
| Unit Questions |  |
| Use the following set of data to answer questions 6 to 8 . <br> Data: 61, 50, 70, 69, 50 |  |
| 6. What is 35 more than the median? | 96 |
| 7. What is the mode times 4? | 200 |
| 8. What is the mean? | 60 |
| Other Questions |  |
| 9. |  |
| 10. |  |

# Mental Math <br> <br> Grade 12 Essential Mathematics (40S) 

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## General Questions

1. Calculate the mortgage if Carmen bought a house for $\$ 210,000$ and had
a down payment of $\$ 32,000$.
\$178,000
2. Solve for $x$ : $\frac{(x+5)}{6}=7$
3. Calculate $75 \%$ of 2300.
4. What is the sum of the digits from 1 to 10 ?
5. Marcel is getting ready for school in September. He bought a binder for $\$ 11.46$, pens for $\$ 6.26$, and pencils for $\$ 3.67$. Estimate how much Marcel spent on school supplies.

## Unit Questions

Use the information below to answer questions 6 to 8 .
$N=$ the total number of scores in the sample
$b=$ the number of scores below a given score
Percentile Rank $=\frac{b}{N} \times 100$
6. Your test mark is $65 \%$ and three other people in your class of 50 students have the same mark as you. There are 30 people with a lower test mark than you. What is your percentile rank?
7. Your test mark is $83 \%$ and one other person in your class of 25 has the same mark as you. There are three people with a higher test mark than you. What is your percentile rank?
8. Your test mark is $62 \%$ and nobody else in your class of 20 students has your same mark. There are four people with a higher mark. What is your percentile rank?

## Other Questions

9. 
10. 
