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

## General Questions

1. Suzanna scores $\frac{26}{75}$ on her World Issues test. Estimate the percent score Suzanna receives on this test.
2. What percentile rank is also called the median?
3. $7^{\prime} 2^{\prime \prime}=$ $\qquad$ inches
4. How many $\mathrm{mm}^{2}$ are equal to $26 \mathrm{~cm}^{2}$ ?
5. There are 15 students missing from a class of 50 students. Write this as a fraction in lowest terms.

## Unit Questions

Use the following diagram to answer questions 6 and 7.

6. Measure the length of the string, precise to the nearest $\frac{1^{\prime \prime}}{4}$.
7. Measure the length of the string, precise to the nearest $\frac{1}{16}$.
8. Arnaud is playing darts and he is aiming for the bullseye (centre circle). Look at his arrangement of darts and state whether Arnaud has good accuracy, good precision, or both.


## Other Questions

9. 
10. 

| Mental Math <br> Grade 12 Essential Mathematics (40S) <br> Unit G: Precision Measurement <br> Specific Learning Outcome: 12.E5.P. 1 |  |
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| General Questions | Answers |
| 1. If the volume of a $1.5 \times 1.5 \times 1.5$ cube is 3.375 units $^{3}$, how many times larger would the volume be if the dimensions of the cube were doubled to $3 \times 3 \times 3$ ? | $2^{3}$ or <br> 8 times |
| 2. $135 \mathrm{~cm}=\ldots \mathrm{m}$ | 1.35 m |
| 3. Simplify this fraction: $\frac{40}{300}$ | $\frac{2}{15}$ |
| 4. 3 feet and 1212 inches $=\ldots$ feet | 104 feet |
| 5. Consider the expression $y=3 x$. What is the value of $x$ when $y=96$ ? | $x=32$ |
| Unit Questions |  |
| Use the following diagram to answer questions 6 to 8 . |  |
| 6. Measure the string using the given ruler. | 3.4 cm |
| 7. What is the precision? | $\begin{gathered} 1 \mathrm{~mm} \text { or } \\ 0.1 \mathrm{~cm} \end{gathered}$ |
| 8. What is the uncertainty? | $\pm 0.5 \mathrm{~mm}$ |
| Other Questions |  |
| 9. |  |
| 10. |  |





