Grade 12 Essential Mathematics (40S)

Unit G: Precision Measurement

Specific Learning Outcome: 12.E5.P.1

G–1

General Questions	Answers
1. Suzanna scores $\frac{26}{75}$ on her World Issues test. Estimate the percent score Suzanna receives on this test.	33.3%
2. What percentile rank is also called the median?	50th
3. 7′2″ = inches	86 inches
4. How many mm^2 are equal to 26 cm ² ?	2600 mm ²
5. There are 15 students missing from a class of 50 students. Write this as a fraction in lowest terms.	$\frac{3}{10}$
Unit Questions	
Use the following diagram to answer questions 6 and 7. $ \begin{bmatrix} 7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7$	
6. Measure the length of the string, precise to the nearest $\frac{1}{4}^{"}$.	$1\frac{3}{4}^{''}$
7. Measure the length of the string, precise to the nearest $\frac{1}{16}^{"}$.	$1\frac{13''}{16}$
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.	Bad accuracy but good precision
Other Questions	
9.	
10.	

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G-2

Gei	neral 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 8 times	
2.	135 cm = m	1.35 m	
3.	Simplify this fraction: $\frac{40}{300}$	$\frac{2}{15}$	
4.	3 feet and 1212 inches = feet	104 feet	
5.	Consider the expression $y = 3x$. What is the value of x when $y = 96$?	<i>x</i> = 32	
Uni	t Questions		
Us	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?	1 mm or 0.1 cm	
8.	What is the uncertainty?	±0.5 mm	
Oth	ner Questions		
9.			
10.			

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G-3

General Questions		Answers
1.	Calculate the volume of a cube with each side measuring 30 cm.	27 000 cm ³
2.	Calculate $\frac{8}{16}$ of 24.	12
3.	What is the unit price of a pen if 10 pens cost \$5?	\$0.50/pen
4.	0.42 km = m	420 m
5.	Calculate the price, including PST of 7% and GST of 5%, of a \$25 DVD on sale for 20% off.	\$22.40
Uni	t Questions	
6.	There are 12 inches in a foot. How many inches is 3'2"?	38″
7.	There are 100 centimetres in a metre. How many cm is 2.45 m?	245 cm
8.	What is 64" in feet and inches?	5′4″
Other Questions		
9.		
10.		

Mental Math G-4 Grade 12 Essential Mathematics (40S) Specific Learning Outcome: 12.E5.P.1 **Unit G: Precision Measurement General Questions** Answers 1. Complete the pattern: 9, 18, 27, 36, ____, 45, 54 2. Solve for *x*: $\frac{7}{8} + 4 = \frac{x}{8}$ 39 3. Amandeep is 4'2" tall. Calculate her approximate height in centimetres. ≈ 125 cm (1 inch = 2.54 cm)= 127 cm 4. What is the perimeter of a triangle with sides measuring 3.6 cm, 10.9 cm 3.2 cm, and 4.1 cm? $\frac{2}{7}$ or $\frac{4}{14}$ 5. Evaluate: $\frac{3}{7} - \frac{2}{14}$ **Unit Questions** Use the diagram below to answer questions 6 and 7. 2 m 12 m 6. Find the area of the rectangle. $24 m^2$ 7. Find the perimeter of the rectangle. 28 m 8. You want to fence a garden that has a perimeter of 92'. Fencing costs \$199.99 for each 25' section. Approximately how much will the fencing \$800 cost before taxes? **Other Questions** 9. 10.

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G-5

General Questions	Answers
1. Complete the pattern : 59, 53, 47, 41,,	35, 29
2. Simplify this fraction: $\frac{14}{64}$	$\frac{7}{32}$
3. Solve for <i>x</i> : $3x - 2 = 16$	6
4. An 80-page book has 5 chapters. Assuming each chapter has the same number of pages, how many pages are there in each chapter?	16 pages
5. Calculate 6% of \$550.	\$33
Unit Questions	
Use the diagram shown here to answer questions 6 to 8. 2 cm 5 cm 10 cm	
6. What is the volume of the box above?	100 cm ³
7. How many of the small boxes shown here can you fit inside the bigger box above? 1.8 cm	3 small boxes
8. What is the perimeter around the bottom of the bigger box?	24 cm
Other Questions	
9.	
10.	