

Grade 6 Mathematics - Unified Quiz (March 2021)

Question Number	Question	Marks	Difficulty and TIMSS Skill
1	<p>G6M1-What is $3 \times 3 \times 3 \times 3 \times 3$ written using an exponent?</p> <p>A. 243 B. 3×5 C. 3^5 D. 5^3</p>	1	<p>Difficulty: Easy</p> <p>TIMSS Skill Domain: Knowing</p>
2	<p>G6M2-Find the value of $-10 + 5$</p> <p>A. -15 B. -5 C. 5 D. 15</p>	1	<p>Difficulty: Easy</p> <p>TIMSS Skill Domain: Knowing</p>
3	<p>G6M3-Factorise $6x + 21y$</p> <p>A. $3xy(2 + 7)$ B. $3(2x + 7y)$ C. $2x + 7y$ D. $27xy$</p>	1	<p>Difficulty: Easy</p> <p>TIMSS Skill Domain: Knowing</p>
4	<p>G6M4-Yasmin has 3 times as many marbles as Mariam. If Mariam has m marbles, what is the correct expression for the number of marbles Yasmin has?</p> <p>A. $m \div 3$ B. $m - 3$ C. $m + 3$ D. $3m$</p>	1	<p>Difficulty: Medium</p> <p>TIMSS Skill Domain: Applying</p>
5	<p>G6M5-Tariq scored 7 goals out of 15 attempts during a football tournament. What proportion of his goal attempts were successful, expressed as a decimal?</p> <p>A. 0.5 B. 0.46 C. 0.46 D. 0.7</p>	1	<p>Difficulty: Medium</p> <p>TIMSS Skill Domain: Applying</p>
6	<p>G6M6-Solve the equation $24 = \frac{z}{0.3}$</p> <p>A. 7.2 B. 8 C. 24.3 D. 80</p>	1	<p>Difficulty: Medium</p> <p>TIMSS Skill Domain: Applying</p>
7	<p>G6M7-A cleaning company charges AED 65 to visit a home and AED 50 to clean each room. If the total bill was AED 365, how many rooms were cleaned?</p> <p>A. 3 rooms B. 4 rooms C. 5 rooms D. 6 rooms</p>	1	<p>Difficulty: Hard</p> <p>TIMSS Skill Domain: Reasoning</p>

8	<p>G6M8-The graph shows the charges for a bicycle rental business in a month. Which equation shows the total charge (y) for (x) number of rentals in a month?</p> <table border="1"> <caption>Data points from the graph</caption> <thead> <tr> <th>Number of Rentals (x)</th> <th>Total Cost (\$y)</th> </tr> </thead> <tbody> <tr><td>0</td><td>2</td></tr> <tr><td>1</td><td>4</td></tr> <tr><td>2</td><td>6</td></tr> <tr><td>3</td><td>8</td></tr> <tr><td>4</td><td>10</td></tr> <tr><td>5</td><td>12</td></tr> </tbody> </table> <p>A. $y = 2x$ B. $y = 2x + 3$ C. $y = 3x$ D. $y = 3x + 2$</p>	Number of Rentals (x)	Total Cost (\$y)	0	2	1	4	2	6	3	8	4	10	5	12	1	<p>Difficulty: Hard TIMSS Skill Domain: Reasoning</p>
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0	2																
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3	8																
4	10																
5	12																
9	<p>G6M9-Which of the following inequalities has the solution shown below?</p> <p>A. $6n > 24$ B. $6n \geq 24$ C. $6n \leq 24$ D. $6n < 24$</p>	1	<p>Difficulty: Medium TIMSS Skill Domain: Applying</p>														
10	<p>G6M10-A summer camp charges a AED 45 registration fee plus an additional AED 10 for each day that someone attends the camp.</p> <p>Which equation shows the total cost (y) for attending the camp for (x) number of days?</p> <p>A. $y = 55x$ B. $y = 45x + 10$ C. $y = 10x + 45$ D. $y = 45x - 10$</p>	1	<p>Difficulty: Hard TIMSS Skill Domain: Reasoning</p>														
10 questions in total		marks total	10														