Rates and Proportions ACMNA208 – Assessment							Teachers Teaching with Technolo Professional Development from Texas Instrum					
Name:							G					
Score: Teacher:							Assessment	1	Navigator	Student	30 min	
Q.1.	Con a)	cert tickets cost 120 × 50	\$50 p b)	er person. 120 ÷ 50	The total c)	takings 50 ÷	in dollars f - 120	from 1 d)	.20 concert g 50 + 120	oers is foi e)	und using: 120 – 50	
Q.2.	The a)	rule for the grap $y = \frac{7}{2}x$	oh opp	b)	$y = \frac{1}{2}x$				∱y 	(2,7)		
	c)	y = 2x		d)	$y = \frac{1}{7}x$			2	2 (1	,3.5)		
Q.3.	e) The	y = x + 2 height difference	e of e	ach level ir	n a buildin	ng is 3.5	m. A lift st	ops or	i the fourth f	loor. The	approximate	
4 .01	height (<i>h</i>) in metres of the floor of the lift is:											
	a)	3.5	b)	14	c)	17.5	5	d)	21.0	e)	35	
Q.4.	I. The cable on a stationary lift breaks. The lift increases its speed by 2m/s each second as it falls. If it falls a period of 6 seconds, it's speed when it reaches the ground would be:								lls. If it falls for			
	a)	10	b)	-10	c)	3		d)	12	e)	0	
Q.5.	A ca	nr can travel 20 k	m on	2.5 litres o	f fuel. How	w far ca	an it travel o	on 50	litres?			
	a)	520	b)	1000	c)	800		d)	400	e)	300	
Q.6.	A cleaning company has tendered to clean the six lifts in a building. If each lift has 24m ² of surface to be cleaned and it costs \$5 a square metre for cleaning the total cost (\$) is										urface to be	
	a)	120	b)	150	c)	288		d)	300	e)	720	
Q.7.	lf 10) kg of potatoes	cost \$	10.90. The	number o	of kilogi	rams of pot	tatoes	you get for S	518 is:		
	a)	18 1.09	b)	18 10.9	c)	1	8×10.9	d)	18×1.09) e)	$10 + \frac{18}{10.9}$	

© Texas Instruments 2014. You may copy, communicate and modify this material for non-commercial educational purposes provided all acknowledgements associated with this material are maintained.



Q.8. A family visits some friends who live 850 km away. On Day 1 they travel 400km in 5.5 hours. How long will it take them on Day 2 to reach their destination if they travel at the same rate?

	a)	11.7 hours	b)	6 hours	c)	c) 6.2 hours		d) 6.4 hours		e)	6.5 hou	ırs
Q.9.	Use The	Jse the table to determine the rule: $y = mx$ The value of <i>m</i> and p (table) respectively are					x: y:	0	1.5 12	3 p	12 96	
	a)	m = 3 p = 84	b)	m = 12 p = 42	c)	т = p =	= 8 24	d)	m = 24 p = 8	e)	m = 8 p = 42	
Q.10.	The	rule for the grap	h opp	osite is:				,	,	Ţ,	v	
	a)	y = -2x + 6.4		b)	y = (x - 2) + 6.4			(-2,6.4)				
	c)	y = 3.2x		d)	$y = \frac{1}{2}x + 6$	4					i	X
	e)	<i>y</i> = - 3.2 <i>x</i>										<u> </u>

© Texas Instruments 2014. You may copy, communicate and modify this material for non-commercial educational purposes provided all acknowledgements associated with this material are maintained.

