Victorian Curriculum and Assessment Authority Levels Addressed: Levels 7, 8

At level 7, students are working towards level 8 standards At level 8, students are working towards level 9 standards

Integers (Same								
To play the game: Get a set of three dice and roll them all together			Example: Amy rolls						
 Yo If t 	 all together You get 5 rolls each round If the sum of the dice is between or including 3 and 10, opposition scored against you while you were on the ice! Take away two points If the sum of the dice is between or including 11 – 18, a team mate scored a goal with your assistance! Give yourself +1 point 			2,3,6 ~ 4,3,2 ~ 5,5,1 ~ 1,2,3 ~ 6,4,3					
an					Poi		rded / lo	ost	TOTAL
				+1	-1	+ 2	-1	+1	+ 2
as									
	nen you land a double or triple, y pred a goal! Add +2 points to y		Semi Final						
🗢 Jo	t down how many points you get round then add them up		Grand						
	e player with the highest amoun	t of points	Final						
wii	ns!							TOTAL:	
Domain	Content Strand	Proficien	cy Strand		Key E	leme	nts of	Standar	ds
S					-				
Mathematics		Numeracy			Level 7: Compare, order, add and subtract			ubtract	
na	Number and Algebra:	_			integers	r. com	Jaie, olu	er, auu anu s	oubliact
ler	Number and Place Value	Creative ar Thinking	Creative and Critical				ndex nota	ation with nun	nhers to
ath		тники			Level 8: Use index notation with numbers to establish the index laws with positive integral indices				
Ĕ									
- Re an	Students have two ways of retrieving answer: - Realising that the angle <i>x</i> and 36° are alternate angles, therefore are congruent								
$ \therefore x = 36^{\circ} $									
01	N N			_	[-[<u>36°(</u>	
	- Determine the third angle of the triangle:								
$180^\circ - 36^\circ - 90^\circ = 54^\circ$ Subtract this angle from 90 to solve x									
$30^{\circ} - 54^{\circ} = 36^{\circ} = X$									
2. Using this answer and the other angles given, calculate angle y. To calculate y, students must first find the opposite angle of 138° by subtracting from 180° and then using that answer with the knowledge that all angles in a triangle adding up to 180° calculate y									
:	$\therefore y = 180^{\circ} - [(180^{\circ} - 138^{\circ}) + 90^{\circ}]$								
$\therefore y = 180^\circ - 132^\circ$									
	<i>y</i> = 48°								
Domain	Content Strand	Proficien	cy Strand		Key E	leme	nts of	Standar	ds
Mathemati cs		Literacy			Level a interior a transve	7: Ident ngles wh ersal. Der	ify corres en two s	sponding, alte	ernate and co- are crossed by
nen cs	Measurement and Geometry:	Numeracy			triangle is		condrug	ence of plane	shapes using
c	Geometric Reasoning	Creative ar	d Critical		transform	nations. E	Establish	properties of	quadrilaterals
Ма		Thinking						and angle pro oblems using	
_							-		-

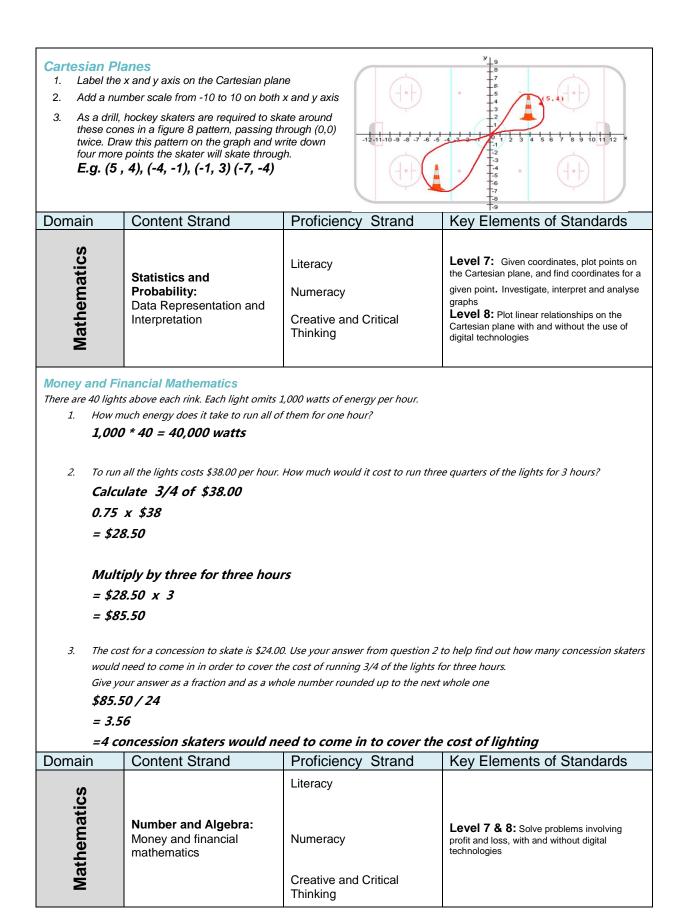
O'BRIEN GROUP ARENA

Victorian Curriculum and Assessment Authority Levels Addressed: Levels 7, 8

Extra Activ	ysis and Representatio	n Shoe	Size Tally Marks	Total			
		2					
		3	////	4			
	vity visit at the O'Brien Group ly your classmates' skate		•				
Note: skat	e size = shoe size	7 - 6 -	•	•			
On the axis below, plot this data as a dot plot. Example (this can be done either using the plane provided or using digital technologies): Calculate the mode, mean, median and range							
			2 4 6 8 10 Shoe/skate size	12			
Domain	Content Strand	Proficiency Stran	d Key Elements of Stand	lards			
Mathematics	Statistics and Probability: Data Representation and	Literacy Numeracy	of data displays including stem-and plots. Calculate mean, median, mod	Level 7: Construct and compare a range of data displays including stem-and-leaf plots and dot plots. Calculate mean, median, mode and range for sets of data. Interpret these statistics in the context of data			
	Interpretation	Creative and Critical Thinking	Level 8: Calculate mean, mediar for sets of data. Interpret these stati of data.				
 If 63 of these are reserved for VIP and 189 seats have been pre-purchased 1. Write an equation to solve for x, where x is the amount of remaining seats in the grandstands x = 983 - (63 + 189) 							
2.	2. Solve the equation $\therefore x = 983 - 252$ $\therefore x = 731$						
 3. If x= 946, calculate the new total of grand stand seats 946 = y - (63 + 189) ∴ y = 946 + (63+189) ∴ y = 946 + 252 ∴ y = 1198 							
Domain	Content Strand	Proficiency S	trand Key Elements of S	Standards			
Mathematics		Numeracy	Level 7 & 8: Create alg and evaluate them by substivalue for each variable and	ebraic expressions tuting a given			

O'BRIEN GROUP ARENA

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	Number and Algebra: Real numbers	Information and communication technology capability	Level 7: Express one quantity as a fraction of another, round decimals to a specified number of decimal places, find percentages of quantities and express one quantity as a percentage of another, with and without digital technologies. Level 8: Solve problems involving the use of percentages, including percentage increases and decreases, with and without digital technologies. Solve a range of problems involving rates and ratios, with and without digital technologies
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