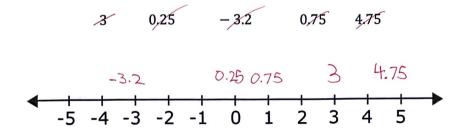
Name: Class:	Solutions		Date:	-				
	Year 11 Essentials		/ 45					
	Test 1, 2021							
Baldivis Secondary College	Topic – Number		5%					
Total Time: Weighting: Equipment:	46 min TOTAL 5 % 1 A4 page of notes (one side) and Co	alculator (second section	only)	_				
NON-CALCULATOR SECTION – 20 min 20 marks Question 1 4 marks								
	strategy to solve the following							
a) 147+	+212	b) 562 + 226 d) 233 + 145	500+200 = 706 60+20 = 80 6+20 = 8 = 788 200+100 = 300 30+40 = 70 6+3 = 8 = 378					
			-010					

Question 2

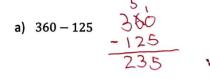
3 marks

Order the following numbers from lowest to highest. The number line has been included to help you visualise their value.



-1 for each mistake

Use the subtraction strategy of your choice to solve the following



- b) 85 134
- c) 475 223 = 200+50+2 = 252
- d) 3450 2105

Question 4

3 marks

Jack went to the shops and wanted to buy 2 packets of chips for \$2.99 each, 3 mars bar for \$1.95 each and a bottle of coke for \$3.05. Estimate how much this would cost Jack. Show your working.



Question 5

Round the following numbers to number of decimal places in the bracket

a) 1.675 (1) 1.7

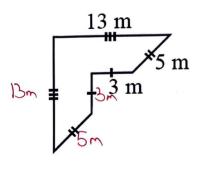
b) 12.084(2)

17.08

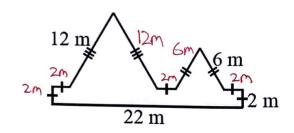
Question 6

4 marks

Find the perimeter of the following shapes



13+13+5+3+3+5



22+12+12+6+6+2+2+2+2+2 =68n

=42m

CALCULATOR SECTION – 26 min 26 marks

Question 7

8 marks

Calculate the following

a) What is 30% of 70kg

30 x70 = 21 kg

V

c) \$150 increased by 25%

150 ×125 100 = 187.5

/

b) What percentage is 28 out of 40

28 ×100 = 70.1.

d) 900 decreased by 45%

 $900 \times 55 = 495$

e) 40% of a number is 28. What is the original number?

 $\frac{28}{40} \times 100 = 70$

f) A number is decreased by 35%, resulting in 162. What is the original number?

 $\frac{162}{135} \times 100 = 120$

162 = x100= 65 Goh and Mei are arguing about who completed their maths assignment correctly. The question on the paper wanted them to evaluate $15 - 5 \times (6 - 4)$ using correct order of operations.

Goh argued that the answer was 20, while Mei argued that the answer was 5.

Who was correct and why?

... Mei was coired as she evaluated the brackets first then multiplied of as subtracting

Question 9

8 marks

Use your knowledge of fractions, decimals and percentages to complete the table on the next page. Remember to simplify your fractions where possible and to round all your decimals and percentages to 2 decimal places if required.

(9 marks)

	FRACTION		DECIMAL		PERCENTAGE	
a)	$\frac{1}{2}$		0.5		50%	
b)	7/10		0.7	*	70.1.	
c)	4		0.25		25%	
d) 5 5	$\frac{16}{10} = 1\frac{3}{6}$	/	1.6		160./.	

Waseem made a purchase for a work outfit online. They sent him the following tax invoice, but there was a glitch in the file and some of the information was missing.

BILL TO Waseem

DESCRIPTION			
DESCRIPTION	RATE	QTY	AMOUNT
Hat	\$18.99	1	\$18.99
Shirt	\$35.50	1	\$35.50
Pants	\$45.75	1	\$45.75
Shoes	\$110.30	1	\$110.30

a) Calculate the total cost of his order, clearly showing the calculation that you would use.

b) In Australia, all products have a Goods and Services Tax (GST) of 10% applied to them. Calculate the total cost of Waseem's order, after the GST was applied.

$$210.54 \times \frac{110}{100} = $231.59$$

c) Waseem picked his order up in store and paid \$300 cash. How much change did he receive?

d) When Waseem tried the shirt on, he found it was too small. He returned the shirt and received the cost of the shirt as a refund. What percentage of the original total did Waseem receive back?

$$\frac{35.50}{231.59} \times 100 = 16.86-1$$

End of Test