ava	ilable for the month of July 201	17:				
Per	unit Selling price Direct material at \$4 per kilo Direct labour at \$8 per hour Machine hours Variable overhead Fixed overhead	Exe \$96.00 7 kilos 3 hours 1.00 \$2.40 \$10.00	Wye \$128.00 9 kilos 4 hours 2.50 \$3.20 \$25.00	Zed \$140.00 15 kilos 4 hours 5.00 \$3.20 \$50.00		
Max	kimum monthly demand	100 units	120 units	60 units		
Fixe	ed overheads are forecast to be	e \$7000 per	month.			
Y Li	mited has enough resources a	and capacity	to meet the i	maximum mont	hly demand.	
REC	QUIRED					
(a)	Calculate the contribution per	unit for each	n product.			
			•••••			
			•••••	•••••		•••••
						•••••
		•••••				
						[3]
(b)	Prepare a statement to show can earn for the month of July		ım contributi	on <b>and</b> maxim	um profit tha	t Y Limited

Y Limited manufactures three products, Exe, Wye and Zed. The following budgeted information is

		•••
		•••
I		[3]
	Calculate the <b>total</b> machine hours required to meet maximum demand for the month July 2017.	of
		•••
		•••
		•••
		•••
1		[1]

# **Additional information**

Due to a machine breakdown, only 500 machine hours will be available for July 2017 production.

# **REQUIRED**

(d)	Calculate the maximum contribution <b>and</b> the maximum profit for the month of July 2017, taking into account the limited machine hours available.
	[10]

## **Additional information**

The directors of Y Limited have been told that they could hire a replacement machine for the month of July 2017 at a cost of \$2500.

## **REQUIRED**

(e)	Advise the directors whether or not they should hire the replacement machine. Justify y answer by considering <b>both</b> advantages and disadvantages of hiring the replacement machine.	
		•••••
		•••••
		•••••
		•••••
( <b>f</b> )	State <b>three</b> short-term decisions, other than limiting factor decisions, where marginal coswould be useful.	ting
	1	
	2	
	2	
	3	

## **Additional information**

The following information is available for another division of Y Limited. The division operates a system of absorption costing with two production departments.

Department 2

Department 1

Budgeted overheads Actual overheads Budgeted labour hours Actual labour hours Budgeted machine hours Actual machine hours		\$5 1	560 000 533 000 140 000 hrs 124 000 hrs 27 000 hrs 33 000 hrs	\$304 000 \$294 000 46 000 hrs 54 000 hrs 160 000 hrs 151 000 hrs				
RE	QUIRED							
(g)	Calculate to <b>two</b> department.	decimal	places an	appropriate	overhead	absorption	rate for	each
								[2]
(h)	Calculate the over a	absorption	n or under a	bsorption of o	verheads fo	or <b>each</b> depa	artment.	