

**2003**

**CAREER AWARD IN ICT**  
Standard Level

**MARK SCHEME**

**MODULE: 5192/A**

**DATA ANALYSIS**

<b>Page 1</b>	<b>Mark Scheme</b>	<b>Module</b>
	<b>ICT CAREER AWARD - 2003</b>	<b>5192/A</b>

**Formula:**  
**Order Value \* Lookup(Discount Value, Range)**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Must display the use of a named range

**Formula:**  
**Discount \* Order**

**Formula:**  
**IF Order Value > 1500 then 0.05 else 0**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Do not penalise the use of named cells/ ranges

Company	Order	Code	Discount	Value	Concession 5%	Total
		1	=LOOKUP(C7,info)	=D7*B7	=IF(B7>1500,B7*5%,0)	=B7-E7-F7
		5	=LOOKUP(C8,info)	=D8*B8	=IF(B8>1500,B8*5%,0)	=B8-E8-F8
		5	=LOOKUP(C9,info)	=D9*B9	=IF(B9>1500,B9*5%,0)	=B9-E9-F9
		5	=LOOKUP(C10,info)	=D10*B10	=IF(B10>1500,B10*5%,0)	=B10-E10-F10
		3	=LOOKUP(C11,info)	=D11*B11	=IF(B11>1500,B11*5%,0)	=B11-E11-F11
		1	=LOOKUP(C12,info)	=D12*B12	=IF(B12>1500,B12*5%,0)	=B12-E12-F12
		1	=LOOKUP(C13,info)	=D13*B13	=IF(B13>1500,B13*5%,0)	=B13-E13-F13
		4	=LOOKUP(C14,info)	=D14*B14	=IF(B14>1500,B14*5%,0)	=B14-E14-F14
		3	=LOOKUP(C15,info)	=D15*B15	=IF(B15>1500,B15*5%,0)	=B15-E15-F15
<b>Information Table</b>						
Codes	1	2	3	4	5	
Disc	0.05	0.1	0.15	0.2	0.25	

**Replication:**  
 All 4 formulae correctly replicated

**Formula:**  
**Order less Value less Concession 5%**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Do not penalise the use of named cells/ ranges

Page orientation landscape  
 This printout must show formulae view  
 Column width / row height must show all of formulae and labels

Format Order Value as Integer

Format the results in the Order, Value, Concession 5% and Total columns to 2dp

Company	Order	Co	Discount	Value	Concession 5%	Total
Evergreens	\$1,735.79	1	5%	\$86.79	\$86.79	\$1,562.21
Patel Inds	\$1,589.65	5	25%	\$397.41	\$79.48	\$1,112.76
Price Mart	\$2,478.36	5	25%	\$619.59	\$123.92	\$1,734.85
Sam's Café	\$89.47	5	25%	\$22.37	\$0.00	\$67.10
Toy Store	\$4,832.96	3	15%	\$724.94	\$241.65	\$3,866.37
Wilson's Store	\$7,892.00	1	5%	\$394.60	\$394.60	\$7,102.80
Sam's Café	\$125.36	1	5%	\$6.27	\$0.00	\$119.09
Rowley Shop	\$1,273.14	4	20%	\$254.63	\$0.00	\$1,018.51
Watkins Sports	\$4,587.00	3	15%	\$688.05	\$229.35	\$3,669.60
<b>Information Table</b>						
Codes		2	3	4	5	
Disc		10%	5%	20%	25%	

**Test data:**  
First 3 columns must be 100% accurate

Format Total Value to Currency with \$ sign and 2dp

Format Discount to Percentage

Page orientation not specified  
This printout must show data and fit on a single page

<b>Page 3</b>	<b>Mark Scheme</b>	<b>Module</b>
	<b>ICT CAREER AWARD - 2003</b>	<b>5192/A</b>

Searching:  
*Discount Code* equal to or greater than 3 and *Total Value* greater than 1500  
 Only these three rows should be visible

<b>Company</b>	<b>Order</b>	<b>Code</b>	<b>Discount</b>	<b>Value</b>	<b>Concession 5%</b>	<b>Total</b>
Price Mart	\$2,478.36	5	25%	\$619.59	\$123.92	\$1,734.85
Toy Store	\$4,832.96	3	15%	\$724.94	\$241.65	\$3,866.37
Watkins Sports	\$4,587.00	3	15%	\$688.05	\$229.35	\$3,669.60

Searching:  
*Discount Value* equals 5 and *Concession %* does not equal 0  
 Only these two rows should be visible

<b>Company</b>	<b>Order</b>	<b>Code</b>	<b>Discount</b>	<b>Value</b>	<b>Concession 5%</b>	<b>Total</b>
Patel Inds	\$1,589.65	5	25%	\$397.41	\$79.48	\$1,112.76
Price Mart	\$2,478.36	5	25%	\$619.59	\$123.92	\$1,734.85

**2003**

**CAREER AWARD IN ICT**  
Standard Level

**MARK SCHEME**

**MODULE: 5192/B**

**DATA ANALYSIS**

<b>Page 1</b>	<b>Mark Scheme</b>	<b>Module</b>
	<b>ICT CAREER AWARD - 2003</b>	<b>5192/B</b>

**Formula:**  
**Cut Cost = Lookup(Facet in Named Range)/Carat**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Must display the use of a named range

**Formula:**  
**IF Precious = p 2.5 else 1.5**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Do not penalise the use of named cells/ ranges

**Cutting options**

Gem cut	cabochons	faceted
Cutting cost	5	10

Name	Precious	Gem Cut	Carat	Carat Value	Cut Cost	Insurance	Total Value
					=LOOKUP(C7,cut)/D7	=IF(B7="p",D7*2.5,D7*1.5)	=D7*E7+F7+G7
					=LOOKUP(C8,cut)/D8	=IF(B8="p",D8*2.5,D8*1.5)	=D8*E8+F8+G8
					=LOOKUP(C9,cut)/D9	=IF(B9="p",D9*2.5,D9*1.5)	=D9*E9+F9+G9
					=LOOKUP(C10,cut)/D10	=IF(B10="p",D10*2.5,D10*1.5)	=D10*E10+F10+G10
					=LOOKUP(C11,cut)/D11	=IF(B11="p",D11*2.5,D11*1.5)	=D11*E11+F11+G11
					=LOOKUP(C12,cut)/D12	=IF(B12="p",D12*2.5,D12*1.5)	=D12*E12+F12+G12
					=LOOKUP(C13,cut)/D13	=IF(B13="p",D13*2.5,D13*1.5)	=D13*E13+F13+G13
					=LOOKUP(C14,cut)/D14	=IF(B14="p",D14*2.5,D14*1.5)	=D14*E14+F14+G14
					=LOOKUP(C15,cut)/D15	=IF(B15="p",D15*2.5,D15*1.5)	=D15*E15+F15+G15
					=LOOKUP(C16,cut)/D16	=IF(B16="p",D16*2.5,D16*1.5)	=D16*E16+F16+G16
					=LOOKUP(C17,cut)/D17	=IF(B17="p",D17*2.5,D17*1.5)	=D17*E17+F17+G17
					=LOOKUP(C18,cut)/D18	=IF(B18="p",D18*2.5,D18*1.5)	=D18*E18+F18+G18

**Replication:**  
 All 3 formulae correctly replicated

**Formula:**  
**Carat\*Carat Value plus Cut Cost plus Insurance**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Do not penalise the use of named cells/ ranges

Page orientation landscape  
 This printout must show formulae view  
 Column width / row height must show all of formulae and labels

Format the results in the Carat Value, Cut Cost, Insurance and Total Value columns to *currency showing the \$ and 2 dp*

**Cutting options**

Gem cut	cabochons	faceted
Cutting cost	5	10

Name	Precious	Gem Cut	Carat	Carat Value	Cut Cost	Insurance	Total Value
Amethyst	sp	faceted	17.9	\$5.00	\$0.56	\$26.85	\$116.91
Amethyst	sp	cabochons	25.9	\$6.00	\$0.19	\$38.81	\$194.22
Aquamarine	sp	faceted	2.23	\$31.50	\$4.48	\$3.35	\$78.07
Citrine	sp	faceted	18.9	\$12.00	\$0.53	\$28.32	\$255.41
Diamond	p	faceted	0.29	\$862.00	\$34.48	\$0.73	\$285.19
Emerald	p	cabochons	0.42	\$357.00	\$11.90	\$1.05	\$162.89
Garnet	sp	cabochons	6.34	\$26.00	\$0.79	\$9.51	\$175.14
Peridot	sp	faceted	3.52	\$30.00	\$2.84	\$5.28	\$113.72
Ruby	p	faceted	0.7	\$286.00	\$14.29	\$1.75	\$216.24
Sapphire	p	faceted	1.51	\$100.00	\$6.62	\$3.78	\$161.40
Tanzanite	sp	cabochons	1.12	\$151.00	\$4.46	\$1.68	\$175.26
Topaz	sp	faceted	15.8	\$11.00	\$0.63	\$23.70	\$198.13

**Test data:**  
First 5 columns must be 100% accurate

Page orientation not specified  
This printout must show data and fit on a single page

Searching:  
**Total Value is greater than 150 and Precious is sp**  
 Only these five rows should be visible

Name	Precious	Gem Cut	Carat	Carat Value	Cut Cost	Insurance	Total Value
Amethyst	sp	cabochoons	25.87	\$6.00	\$0.19	\$38.81	\$194.22
Citrine	sp	faceted	18.88	\$12.00	\$0.53	\$28.32	\$255.41
Garnet	sp	cabochoons	6.34	\$26.00	\$0.79	\$9.51	\$175.14
Tanzanite	sp	cabochoons	1.12	\$151.00	\$4.46	\$1.68	\$175.26
Topaz	sp	faceted	15.8	\$11.00	\$0.63	\$23.70	\$198.13

Searching:  
**Facet equals faceted and Insurance less than 5.00**  
 Only these four rows should be visible

Name	Precious	Gem Cut	Carat	Carat Value	Cut Cost	Insurance	Total Value
Aquamarine	sp	faceted	2.23	\$31.50	\$4.48	\$3.35	\$78.07
Diamond	p	faceted	0.29	\$862.00	\$34.48	\$0.73	\$285.19
Ruby	p	faceted	0.7	\$286.00	\$14.29	\$1.75	\$216.24
Sapphire	p	faceted	1.51	\$100.00	\$6.62	\$3.78	\$161.40

**2003**

**CAREER AWARD IN ICT**  
Standard Level

**MARK SCHEME**

**MODULE: 5192/C**

**DATA ANALYSIS**

**Formula:**  
**Ins Rate = Lookup(Category in Named Range)**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Must display the use of a named range

**Formula:**  
**Rate multiplied by Ins Rate**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Do not penalise the use of named cells/ ranges

Category	Car Type	Doors	Rate	Ins Rate	Insurance	Total	Deposit
				=LOOKUP(A2,ins)	=D2*E2	=D2+F2	=IF(D2>60,"Yes","No")
				=LOOKUP(A3,ins)	=D3*E3	=D3+F3	=IF(D3>60,"Yes","No")
				=LOOKUP(A4,ins)	=D4*E4	=D4+F4	=IF(D4>60,"Yes","No")
				=LOOKUP(A5,ins)	=D5*E5	=D5+F5	=IF(D5>60,"Yes","No")
				=LOOKUP(A6,ins)	=D6*E6	=D6+F6	=IF(D6>60,"Yes","No")
				=LOOKUP(A7,ins)	=D7*E7	=D7+F7	=IF(D7>60,"Yes","No")
				=LOOKUP(A8,ins)	=D8*E8	=D8+F8	=IF(D8>60,"Yes","No")
				=LOOKUP(A9,ins)	=D9*E9	=D9+F9	=IF(D9>60,"Yes","No")

**Insurance Table**

Category	Ins
A	0.1
B	0.15
C	0.2
D	0.25
E	0.3
F	0.35

**Formula:**  
**Rate + Insurance**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Do not penalise the use of named cells

**Formula:**  
**IF Rate greater than 60, Yes if less than or equal to 60 No**  
 Alignment not important  
 Row/Column may not be the same as this example  
 Do not penalise the use of named cells/ ranges

Page orientation landscape  
 This printout must show formulae view  
 Column width / row height must show all of formulae and labels

Format the results in the Ins Rate column to percentage

Format the results in the Rate, Insurance and Total columns to currency showing \$ and 2 dp

Category	Car Type	Doors	Rate	Ins Rate	Insurance	Total	Deposit
A	Economy	2	\$38.00	10%	\$3.80	\$41.80	No
B	Compact	2	\$44.00	15%	\$6.60	\$50.60	No
B	Compact	4	\$48.00	15%	\$7.20	\$55.20	No
C	Intermediate	2	\$58.00	20%	\$11.60	\$69.60	No
C	Intermediate	4	\$60.00	20%	\$12.00	\$72.00	No
D	Jeep wrangler	2	\$78.00	25%	\$19.50	\$97.50	Yes
E	Premium	4	\$94.00	30%	\$28.20	\$122.20	Yes
F	Luxury	4	\$95.00	35%	\$33.25	\$128.25	Yes

**Insurance Table**

Category	Ins
A	0.1
B	0.15
C	0.2
D	0.25
E	0.3
F	0.35

**Test data:**  
Four columns and Insurance Table must be 100% accurate

Page orientation not specified  
This printout must show data and fit on a single page

<b>Page 3</b>	<b>Mark Scheme</b>	<b>Module</b>
	<b>ICT CAREER AWARD - 2003</b>	<b>5192/C</b>

Searching:  
*Total greater than 60 and less than 100 and Doors = 2*  
 Only these two rows should be visible

Category	Car Type	Doors	Rate	Ins Rate	Insurance	Total	Deposit
C	Intermediate	2	\$58.00	20%	\$11.60	\$69.60	No
D	Jeep wrangler	2	\$78.00	25%	\$19.50	\$97.50	Yes

Searching:  
*Total is greater than 50 and the Category is B or C*  
 Only these four rows should be visible

Category	Car Type	Doors	Rate	Ins Rate	Insurance	Total	Deposit
B	Compact	2	\$44.00	15%	\$6.60	\$50.60	No
B	Compact	4	\$48.00	15%	\$7.20	\$55.20	No
C	Intermediate	2	\$58.00	20%	\$11.60	\$69.60	No
C	Intermediate	4	\$60.00	20%	\$12.00	\$72.00	No