



>

CANDIDATE
NAME

CENTRE
NUMBER

--	--	--	--	--

CANDIDATE
NUMBER

--	--	--	--



>

>

>

>

>

>

>

>

>

>



CAMBRIDGE
International Examinations

0DWKHPDWLFDO)RUPXODH

$\$/*(\%5\$$

4XDGU~~DWDL~~WLRQ

)RWKHTXD~~ML~~EQF

$$\left[\frac{<E\pm\sqrt{E<DF}}{D} \right]$$

%LQRPLDO 7KHRUHP

$D\ E^Q\ D^Q\ Q_{D^{\pm}E}\ Q_{D^{\pm}E}\ \ll\ Q_{UD^{\pm}E}\ \ll\ E^Q$

ZKHQ~~LHDS~~RVLLW~~QW~~~~BIQ~~~~U~~ $\frac{Q}{Q\pm U U}$

75,*2120(75<

,GHQWLWLHV

VL~~Q~~FR~~\\$~~

VH~~\\$~~WD~~\\$Q~~

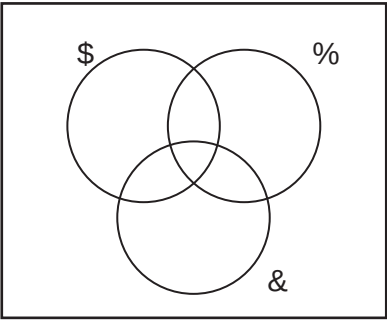
FRV~~\\$F~~FR~~\\$V~~

)RUPXOD~~\\$H\%~~RU

$$\frac{D}{VL~~\$Q~~}\ \frac{E}{VL~~\%Q~~}\ \frac{F}{VL~~\&Q~~}$$

$D\ E\ F\pm E\ FR~~\$V~~$

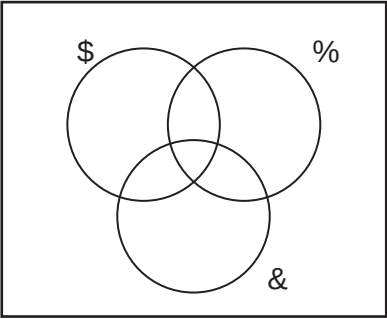
$\cdots - E\ FR~~\$Q~~$



\$ % &

> @

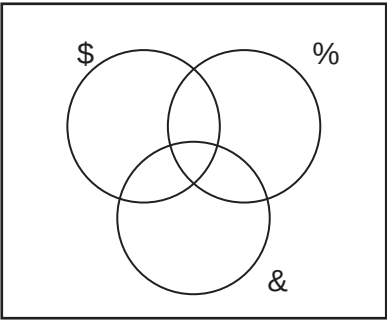
L L



\$ % &

> @

L L L



\$ % &

> @

[- I R U [-

> @

\$

D Q%

) L Q%

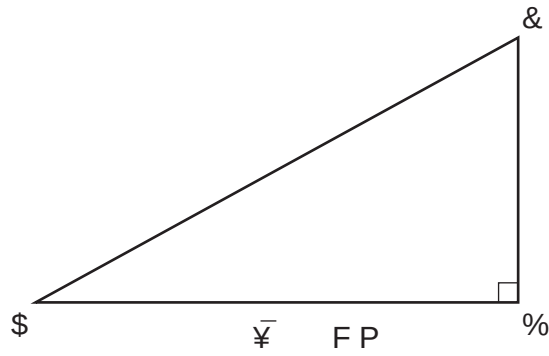
> @

E * L Y H W K P D W W ; U L [I L Q W K L Q W M D I R X I P H D Q R S I Q V X F W K K D W
Z K H , U L W K L G H Q P D W W L [

> @

F * L Y H W K P D W W ; U L [^D I L Q W K L Q W M D I R X I P H D Q R S I Q V X F W K K D W

> @



7 K 6 L D J V I R Z V U L \$ % & L W K G H $\sqrt{\quad}$ F P \$ Q J O H V D U L J K Q W , O H V L Y H Q

W K V D H U R I D / K W U L D & J F O H

L) L Q V G I O H Q R I W K H L \$ & L Q K R U P $\sqrt{\quad}$ F P Z K H D D H Q E D U H Q W H J H U V

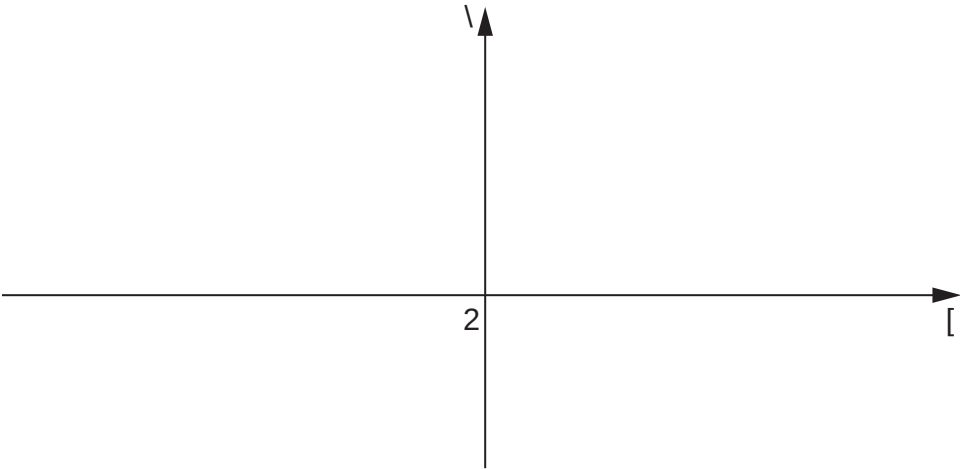
L L + H Q I L H Q V G I O H Q R I W K H L \$ & L Q K R U S $\sqrt{\quad}$ F P Z K H S L H D Q Q W H J H U > @

D W I S H R L Z Q W U H

> @

SRLQWVHDSKHWDHV

VKRZWQFRUGBQVHHV
> @



LL)LOVFRUGBQVHDSRLQWVFXUYH |

> @

LL)LOVFRUGBQVHDSRLQWVFXUYH |

KDRQOXRQXWLRQV

[D Q\GL W X FKK-D-W * L Y H Q

W KVD FAK UKYDD U D GR IH Q W W KSR L-Q W- I L Q KHT X D RM FQ U Y H

> @

Y D O R X N R I S D Q F G I T

D U H

I L Q V K H
> @

E) L Q V K H W F L D W G H S H R Q L G V Q H W S D Q P I L R Q
|

> @

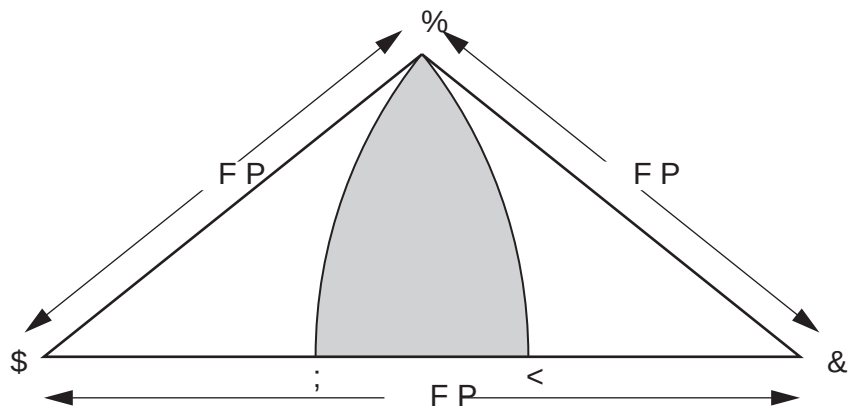
WKH 0DWKHPDWLFFV ERRNV DUH QH[W WR HDFK RWKHU

LLWKH 0DWKHPDWLFFV ERRNV DUH QRW QH[W WR HDFK RWKHU

E 7RFRPSHQWKLJWHBPLWRFKRVLURJURXSPHQQGRPH)QWKH
QXPERGLIIHWHQWDEHFKRVHQ

L WKHUH DUH QR UHVVULFWLRQV > @

LLDWHVZHQXVWRQVHDP > @



7 K 6 L D J V I D R Z Q V R V F H U L B V & O H K S D W F P D Q S % % & F P
 % ; L D Q U R F D F L U F B Q & W D Q G L D Q U R F D F L U F B Q W U H

L 6 K R W K D Q W S C H U D G L F R Q W H R G W F L S P O D F H V

> @

L L) L Q V G S H H U L F R H W H H U D G H G L R Q

> @

L Q W H W V H K F W V H D W K S H R L Q D V Q G 7 K H
S H U S H Q E L V F H T O M D I O L S % L Q W H W V H K F W V H K S H R L Q D V Q G) L Q V G I O H Q R W K H
O L Q ' H L Q W K R I U E Z K H D L H D Q Q W H J H U > @

D Q G — I L Q W Y H D O R X H D R K W K L Q W H J H Q U G > @

E 6 R O Y H]]

> @
