

**Edexcel GCE**

# **Applied Information and Communication Technology**

## **Unit 3: The Knowledge Worker**

June 2010

**Scenario**

Paper Reference

**6953/01**

The scenario should be distributed to candidates at least three working weeks before the examination.

**Practice files:** Times\_practice.txt, Model\_practice.xls

This scenario should be used for the purposes of preparing candidates for the examination. This copy **must not** be taken into the examination. The information contained in the scenario will be included in the examination paper.

Further details are in the Instructions of the Conduct of Examinations (ICE), available from the Edexcel website for this qualification.

**Edexcel will not accept any request for special consideration should candidates be given the incorrect scenario for the examination they are sitting.**

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## British Basketball League Divisional All-Star Play-Offs

The British Basketball League is split into five divisions: Northern, Southern, Midlands, Wales and Western England, and Scotland. Each division runs separate leagues. In addition to the adult teams, there are separate boys and girls teams playing in four different age groups: under 12s, under 14s, under 16s and under 18s.

During the season every team in each league plays each other twice, home and away. At the end of the season the winning teams from each league play in a tournament to decide the National Champions.

Once all of the National Champions have been crowned, preparations begin for the Divisional All-Star Play-Offs. Originally the play-offs were a post-season bit of fun but, over the years, they have increased in importance. The Great Britain Team management now use the play-offs to select the national teams. Consequently, the five divisional administrations take the play-offs very seriously and bring the best players from the teams in their division together to train as squads.

This year the Southern Division has been lucky enough to enlist the services of David Coates as coach. David "flying fifteen" Coates is the only English player in the American NBL (National Basketball League). He is a former player for the Southend Sabres and now plays "center" for the Arizona Cobras. The divisional administration is keen to make the most of David's skills. They have arranged training sessions at their Crawley centre. For each age group there will be a different training day and both boys and girls squads will take part. The training sessions will start at 12:30 and all participants will need to sign in by midday.

There are 14 clubs in the Southern Division. Table 1 shows the club names and locations.

**Table 1**

<b>Club</b>	<b>Location</b>
Brentwood Bees	Brentwood
Brighton Celts	Brighton
Aylesbury Lightning	Aylesbury
Guildford Dragons	Guildford
Ipswich Tigers	Ipswich
Kent Stallions	Canterbury
Kingston Lions	Kingston
London Giants	Lewisham
London Jets	Paddington
Newham Fire	Newham
Reading Pirates	Reading
Solent Stars	Southampton
Southend Sabres	Southend
Worthing Phoenix	Worthing

Figure 1 shows the clubs locations of the Southern Division



The 15 best players in each league are chosen to attend the training session. The administration has four 16-seat (1 driver +15 passengers) mini-buses, which it sends out from Crawley to collect the players. Consequently for each training session the mini-buses have to collect 30 players (15 boys and 15 girls) from their clubs. The players selected can be from any club in the league and each club can supply any number of players.

You are an IT specialist working for the Southern Division and your manager has asked you to decide how and when the players will be picked up. The drivers of the mini-buses will need to know what time to set off and which clubs to go to. They will also need to know in which order and at what time they should be at each club. It would also be helpful to know how many people they will have to pick up. The players will need to be told what time they need to be at their club and that the mini-bus will only wait for five minutes after the agreed pick-up time.

To help you make these decisions you have been given a partially completed model which will work out times for you.

## Description of the model

Worksheet	Description
Teams	This worksheet is where you can set the number of players selected from each team. You can also set which mini-bus is going to call at which pick-up point and in what order. The number of passengers on each mini-bus will be calculated.
Timetable	In the Timetable worksheet you can set the starting time for each of the mini-buses. The arrival and departure times at the clubs will be calculated.
Timings	The Timings worksheet will contain the travelling time in minutes between the clubs.
Calculated Time	The Calculated Time worksheet takes the values in the Timings worksheet and converts them to hh:mm:ss format.
Memo	The Memo worksheet will provide information for the mini-bus drivers.

**Some cells in the model are password protected. Should you wish to experiment with the model, the password is *edexcel*. Be aware that if you change the contents of any protected cell the model may not work.**