2016 WAEP Applications Unit 3&4

Changes highlighted below:

Q13 Solutions only

Was:

The tasks involved in a project, their immediate predecessors and duration, are shown below.

Task	Duration (minutes)	Predecessor(s)	Earliest Start Time	Latest Start Time	Float Time
A	14	-	0	2	2
B	12	-	0	0	0
C	10	-	0	2	2
D	20	-	0	9	9
E	4	B, C	12	18	6
F	17	B, C	12	12	0
G	7	A, E	16	22	4
H	6	A, E	16	23	5

Should be

The tasks involved in a project, their immediate predecessors and duration, are shown below.

Task	Duration (minutes)	Predecessor(s)	Earliest Start Time	Latest Start Time	Float Time
A	14	-	0	8	8
B	12	-	0	0	0
C	10	-	0	2	2
D	20	-	0	9	9
E	4	B, C	12	18	6
F	17	B, C	12	12	0
G	7	A, E	16	22	6
H	6	A, E	16	23	7

Q14(b) – changes to both Question Paper and Solutions.

(b)   Complete the table below, rounding the <mark>missing</mark> numbers of tyres to the nearest whole number.   (2 marks)

n	1	2	3	4	5	6	7	8	9	10
T_n	2400	1800	1380	1086	880	736	635	565	515	481

Question should be:

(b)   Complete the table below, rounding the numbers of tyres to the nearest whole number.
(2 marks)

n	1	2	3	4	5	6	7	8	9	10
T_n	2500	1870	1429	1120	904	753	647	573	521	485

Solutions should be:

(b)   Complete the table below, rounding the numbers of tyres to the nearest whole number.
(2 marks)

n	1	2	3	4	5	6	7	8	9	10
T_n	2500					753	647	573	521	485

Q15 Solutions only

Was

Solution
Taxi from G: G-H-D-A-B = 20 minutes Taxi from K: K-J-F-E-B = 19 minutes Taxi from <mark>G</mark> will reach B first.
Specific behaviours
✓ states taxi from K arrives first ✓ lists, in order, route from G ✓ states total time from G ✓ lists, in order, route from K ✓ states total time from K

Should be

Solution
Taxi from G: G-H-D-A-B = 20 minutes Taxi from K: K-J-F-E-B = 19 minutes Taxi from K will reach B first.
Specific behaviours
✓ states taxi from K arrives first ✓ lists, in order, route from G ✓ states total time from G ✓ lists, in order, route from K ✓ states total time from K