Worksheet 1: Staffing Requirements and Arrangement

Background:
Joyful Learning Kindergarten is a kindergarten (KG) joining the Pre-primary Education Voucher Scheme (PEVS). The numbers of pupils enrolled in half-day (HD) and whole-day (WD) classes are as follows:

<table>
<thead>
<tr>
<th>Classes</th>
<th>AM</th>
<th>PM</th>
<th>WD</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of pupils</td>
<td>120</td>
<td>30</td>
<td>20</td>
</tr>
</tbody>
</table>

Question 1:
Joyful Learning Kindergarten has employed sufficient teachers possessing Certificate in Early Childhood Education (C(ECE)) qualifications (including the principal) based on the teacher to pupil ratio (TP ratio) of 1:15. What are the minimum numbers of C(ECE) teachers required in the AM session and PM session respectively in Joyful Learning Kindergarten?

Answer 1:

Total no. of pupils in the AM session:

No. of pupils in AM classes: 120
No. of pupils in WD classes: 20
Total no. of pupils in the AM session (i.e. A): 140

No. of C(ECE) teachers to be on duty in the AM session:

Total no. of pupils in the AM session (i.e. A): 140
TP ratio of 1:15: 15
No. of C(ECE) teachers on duty in the AM session: 9.3 (i.e. 10)

Total no. of pupils in the PM session:

No. of pupils in PM classes: 30
No. of pupils in WD classes: 20
Total no. of pupils in the PM session (i.e. P): 50

No. of C(ECE) teachers to be on duty in the PM session:

Total no. of pupils in the PM session (i.e. P): 50
TP ratio of 1:15: 15
No. of C(ECE) teachers on duty in the PM session: 3.3 (i.e. 4)
Question 2:
How many additional teachers working WD should Joyful Learning Kindergarten employ in order to fulfill the overall requirement in TP ratio of 1:11 (principal not included) under the “Free Quality Kindergarten Education Scheme” (the Scheme)?

Answer 2:
To fulfill the overall requirement in TP ratio of 1:11 (principal not included) under the Scheme, the number of teachers Joyful Learning Kindergarten should employ is as follows (working WD is taken for calculation):

\[
\left( \frac{150}{2} + 20 \right) \div 11 = 8.6 \text{ (i.e. 8)}
\]

(Hint: In terms of calculating the number of teachers, 2 teachers working HD in either AM or PM session only should be counted as 1 teacher working WD. For example, if there are 8 teachers working in the AM session and 4 teachers working in the PM session respectively in a kindergarten, the number of teachers working WD should be \((8 + 4) \div 2 = 6\) for the purpose of calculating the number of teachers.

Therefore, the number of teachers Joyful Learning Kindergarten should employ additionally is 2.

Question 3:
How can the teacher arrangement in Joyful Learning Kindergarten meet the TP ratio requirements of 1:15 and 1:11 under the Scheme at the same time? (You may choose more than one option)

To be displayed on PowerPoint:
(The principal is included in the following numbers of teachers)

i. 9 teachers working WD
ii. 8 teachers working WD and 2 teachers working HD in the AM session (Correct)
iii. 6 teachers working WD and 4 teachers working HD in the AM session