Workshop on "Free Quality Kindergarten Education Scheme"
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:

Classes	AM	PM	WD
No. of pupils	120	30	20

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 <u>AM session</u>:

120	+	20	=	140
No. of pupils in AM classes		No. of pupils in WD classes		A

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

140	÷	15	=	9.3 (i.e.10)
Total no. of pupils in the AM session (i.e. A)		TP ratio of 1:15		Round up the answer to the nearest integer

Total no. of pupils in the <u>PM session</u>:

30	+	20	=	50
No. of pupils in PM classes		No. of pupils in WD classes		P

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

50	÷	15	=	3.3 (i.e. 4)
Total no. of pupils in the PM session (i.e. P)		TP ratio of 1:15		Round up the answer to the nearest integer

Question 2:
How many additional teachers <u>working WD</u> should Joyful Learning Kindergarten employ in order to fulfill the overall requirement in TP ratio of 1:11 **(principal <u>not</u> 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 (<u>working WD</u> is taken for calculation):

$$(\underset{\substack{\text{Total no.}\\\text{of pupils}\\\text{in }\underline{\text{HD}}\\\text{classes}}}{150} \div \underset{}{2} + \underset{\substack{\text{No. of}\\\text{pupils in}\\\underline{\text{WD}}\\\text{classes}}}{20}) \div \underset{\substack{\text{TP ratio}\\\text{of 1:11}}}{11} = \underset{\substack{\text{Round down}\\\text{the answer to}\\\text{the nearest}\\\text{integer}}}{\substack{8.6\\(\text{i.e. }8)}}$$

(Hint: In terms of calculating the number of teachers, 2 teachers <u>working HD</u> in either AM or PM session only should be counted as 1 teacher <u>working WD</u>. 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) ÷ 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