

Name: _____ Date: _____

Adding of Hours and Minutes

E.g. 1:

$$1\text{h } 40\text{min} + 1\text{h } 15\text{min} = \underline{\hspace{2cm}}? \underline{\hspace{2cm}}$$

We can add the hours with the hours first,
then add the minutes with the minutes.

$$\text{In this case, } 1\text{h} + 1\text{h} = 2\text{h}$$

And

$$40\text{min} + 15\text{min} = 55\text{min}$$



$$\text{Therefore, } 1\text{h } 40\text{min} + 1\text{h } 15\text{min} = \underline{\mathbf{2\text{h } 55\text{min}}}$$

E.g. 2:

$$1\text{h } 35\text{min} + 2\text{h } 30\text{min} = \underline{\hspace{2cm}}? \underline{\hspace{2cm}}$$



Add the hours first.

$$1\text{h} + 2\text{h} = 3\text{h}$$

Then, add the minutes.

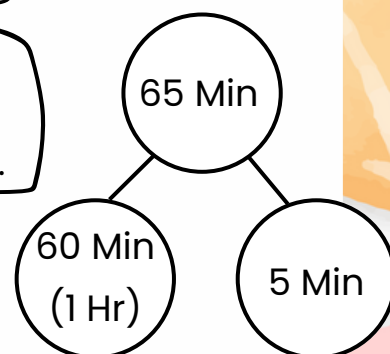
$$35\text{min} + 30\text{min} = 65\text{min}$$

$$1\text{h } 35\text{min} + 2\text{h } 30\text{min} = 3\text{h } 65\text{min}$$

Since 1h is 60min, the answer above is
not our final answer yet.

This is because we can further change $65\text{min} = 1\text{h } 5\text{min}$.

$$\text{Hence, } 1\text{h } 35\text{min} + 2\text{h } 30\text{min} = 3\text{h } 65\text{min} \\ = \underline{\mathbf{4\text{h } 5\text{min}}}$$



QUESTIONS



1. $1\text{h } 20\text{min} + 15\text{min} =$ _____

2. $1\text{h } 14\text{min} + 34\text{min} =$ _____

3. $1\text{h } 45\text{min} + 10\text{min} =$ _____

4. $2\text{h } 10\text{min} + 14\text{min} =$ _____

5. $2\text{h } 15\text{min} + 34\text{min} =$ _____

6. $2\text{h } 35\text{min} + 1\text{h } 13\text{min} =$ _____

7. $2\text{h } 17\text{min} + 2\text{h } 35\text{min} =$ _____

8. $3\text{h } 45\text{min} + 2\text{h } 10\text{min} =$ _____

9. $4\text{h } 10\text{min} + 3\text{h } 14\text{min} =$ _____

10. $4\text{h } 25\text{min} + 3\text{h } 24\text{min} =$ _____



QUESTIONS



11. $1\text{h } 35\text{min} + 45\text{min} =$ _____

12. $2\text{h } 15\text{min} + 55\text{min} =$ _____

13. $2\text{h } 45\text{min} + 1\text{h } 20\text{min} =$ _____

14. $2\text{h } 55\text{min} + 2\text{h } 15\text{min} =$ _____

15. $2\text{h } 45\text{min} + 2\text{h } 45\text{min} =$ _____

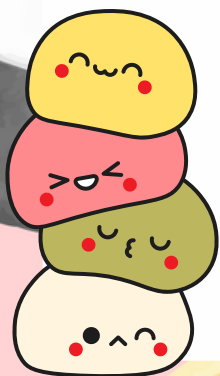
16. $3\text{h } 15\text{min} + 2\text{h } 55\text{min} =$ _____

17. $3\text{h } 35\text{min} + 2\text{h } 35\text{min} =$ _____

18. $3\text{h } 45\text{min} + 2\text{h } 55\text{min} =$ _____

19. $3\text{h } 40\text{min} + 3\text{h } 40\text{min} =$ _____

20. $3\text{h } 55\text{min} + 3\text{h } 20\text{min} =$ _____



Subtracting of Hours and Minutes

E.g. 1:

$$1\text{h } 40\text{min} - 1\text{h } 15\text{min} = \underline{\hspace{2cm}}?$$

Step 1:

Ensure that the number of minutes that comes before the subtraction sign is **bigger** than the number of minutes after the subtraction sign.

In this case, 40min is bigger than 15min.
We can now take $40\text{min} - 15\text{min} = 25\text{min}$

And, we can also subtract the hours.

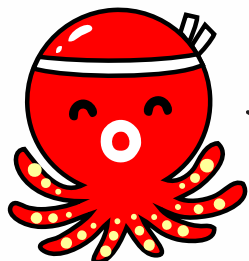
$$1\text{h} - 1\text{h} = 0\text{h}$$



Therefore, $1\text{h } 40\text{min} - 1\text{h } 15\text{min} = \underline{\mathbf{25\text{min}}}$

E.g. 2:

$$2\text{h } 30\text{min} - 1\text{h } 45\text{min} = \underline{\hspace{2cm}}?$$



In the event when the number of minutes that comes before the subtraction sign is **smaller** than the number of minutes after the subtraction sign, there are 2 possible methods to answer the question.

Method 1: Convert to Minutes

$$\begin{aligned} 2\text{h } 30\text{min} &= 60\text{min} + 60\text{min} + 30\text{min} \\ &= 150\text{min} \end{aligned}$$

$$\begin{aligned} 1\text{h } 45\text{min} &= 60\text{min} + 45\text{min} \\ &= 105\text{min} \end{aligned}$$

$$\begin{aligned} 2\text{h } 30\text{min} - 1\text{h } 45\text{min} &\text{ is the same as } \\ 150\text{min} - 105\text{min} &= 45\text{min} \end{aligned}$$

$$\begin{aligned} \text{Therefore,} \\ 2\text{h } 30\text{min} - 1\text{h } 45\text{min} &= 45\text{min} \end{aligned}$$

Method 2: Borrow 60min from the hour

We take 60min from 2h and transfer it to the 30min.

$$2\text{h } 30\text{min} = 1\text{h } 90\text{min}$$

Now, instead of doing
 $2\text{h } 30\text{min} - 1\text{h } 45\text{min}$,
do $1\text{h } 90\text{min} - 1\text{h } 45\text{min}$

$$\begin{aligned} \text{Therefore,} \\ 1\text{h } 90\text{min} - 1\text{h } 45\text{min} &= 45\text{min} \end{aligned}$$

QUESTIONS



1. $1\text{h } 40\text{min} - 25\text{min} =$ _____

2. $2\text{h } 45\text{min} - 13\text{min} =$ _____

3. $4\text{h } 14\text{min} - 1\text{h } 7\text{ min} =$ _____

4. $3\text{h } 45\text{min} - 1\text{h } 13\text{min} =$ _____

5. $4\text{h } 24\text{min} - 2\text{h } 12\text{min} =$ _____

6. $4\text{h } 45\text{min} - 2\text{h } 15\text{min} =$ _____

7. $4\text{h } 50\text{min} - 3\text{h } 5\text{min} =$ _____

8. $5\text{h } 45\text{min} - 2\text{h } 45\text{min} =$ _____

9. $5\text{h } 50\text{min} - 3\text{h } 15\text{min} =$ _____

10. $5\text{h } 34\text{min} - 4\text{h } 10\text{min} =$ _____



QUESTIONS



11. $1\text{h } 10\text{ min} - 40\text{min} =$ _____

12. $2\text{h } 15\text{min} - 1\text{h } 45\text{min} =$ _____

13. $2\text{h } 20\text{min} - 1\text{h } 50\text{min} =$ _____

14. $3\text{h } 10\text{min} - 1\text{h } 20\text{min} =$ _____

15. $3\text{h } 15\text{min} - 2\text{h } 25\text{min} =$ _____

16. $4\text{h } 5\text{min} - 2\text{h } 15\text{min} =$ _____

17. $4\text{h } 26\text{min} - 2\text{h } 35\text{min} =$ _____

18. $4\text{h } 35\text{min} - 2\text{h } 45\text{min} =$ _____

19. $4\text{h } 40\text{min} - 2\text{h } 50\text{min} =$ _____

20. $5\text{h } 5\text{min} - 3\text{h } 15\text{min} =$ _____



ANSWER KEY

Adding of Hours and Minutes

1. $1\text{h } 20\text{min} + 15\text{min} = 1\text{h } 35\text{min}$

2. $1\text{h } 14\text{min} + 34\text{min} = 1\text{h } 48\text{min}$

3. $1\text{h } 45\text{min} + 10\text{min} = 1\text{h } 55\text{min}$

4. $2\text{h } 10\text{min} + 14\text{min} = 2\text{h } 24\text{min}$

5. $2\text{h } 15\text{min} + 34\text{min} = 2\text{h } 49\text{min}$

6. $2\text{h } 35\text{min} + 1\text{h } 13\text{min} = 3\text{h } 48\text{min}$

7. $2\text{h } 17\text{min} + 2\text{h } 35\text{min} = 4\text{h } 52\text{min}$

8. $3\text{h } 45\text{min} + 2\text{h } 10\text{min} = 5\text{h } 55\text{min}$

9. $4\text{h } 10\text{min} + 3\text{h } 14\text{min} = 7\text{h } 24\text{min}$

10. $4\text{h } 25\text{min} + 3\text{h } 24\text{min} = 7\text{h } 49\text{min}$

11. $1\text{h } 35\text{min} + 45\text{min} = 2\text{h } 20\text{min}$

12. $2\text{h } 15\text{min} + 55\text{min} = 3\text{h } 10\text{min}$

13. $2\text{h } 45\text{min} + 1\text{h } 20\text{min} = 4\text{h } 5\text{min}$

14. $2\text{h } 55\text{min} + 2\text{h } 15\text{min} = 5\text{h } 10\text{min}$

15. $2\text{h } 45\text{min} + 2\text{h } 45\text{min} = 5\text{h } 30\text{min}$

16. $3\text{h } 15\text{min} + 2\text{h } 55\text{min} = 6\text{h } 10\text{min}$

17. $3\text{h } 35\text{min} + 2\text{h } 35\text{min} = 6\text{h } 10\text{min}$

18. $3\text{h } 45\text{min} + 2\text{h } 55\text{min} = 6\text{h } 40\text{min}$

19. $3\text{h } 40\text{min} + 3\text{h } 40\text{min} = 7\text{h } 20\text{min}$

20. $3\text{h } 55\text{min} + 3\text{h } 20\text{min} = 7\text{h } 15\text{min}$

ANSWER KEY

Subtracting of Hours and Minutes

1. $1\text{h } 40\text{min} - 25\text{min} = 1\text{h } 15\text{min}$
2. $2\text{h } 45\text{min} - 13\text{min} = 2\text{h } 32\text{min}$
3. $4\text{h } 14\text{min} - 1\text{h } 7\text{min} = 3\text{h } 7\text{min}$
4. $3\text{h } 45\text{min} - 1\text{h } 13\text{min} = 2\text{h } 32\text{min}$
5. $4\text{h } 24\text{min} - 2\text{h } 12\text{min} = 2\text{h } 12\text{min}$
6. $4\text{h } 45\text{min} - 2\text{h } 15\text{min} = 2\text{h } 30\text{min}$
7. $4\text{h } 50\text{min} - 3\text{h } 5\text{min} = 1\text{h } 45\text{min}$
8. $5\text{h } 45\text{min} - 2\text{h } 45\text{min} = 3\text{h } 0\text{min}$
9. $5\text{h } 50\text{min} - 3\text{h } 15\text{min} = 2\text{h } 35\text{min}$
10. $5\text{h } 34\text{min} - 4\text{h } 10\text{min} = 1\text{h } 24\text{min}$
11. $1\text{h } 10\text{min} - 40\text{min} = 0\text{h } 30\text{min}$
12. $2\text{h } 15\text{min} - 1\text{h } 45\text{min} = 0\text{h } 30\text{min}$
13. $2\text{h } 20\text{min} - 1\text{h } 50\text{min} = 0\text{h } 30\text{min}$
14. $3\text{h } 10\text{min} - 1\text{h } 20\text{min} = 1\text{h } 50\text{min}$
15. $3\text{h } 15\text{min} - 2\text{h } 25\text{min} = 0\text{h } 50\text{min}$
16. $4\text{h } 5\text{min} - 2\text{h } 15\text{min} = 1\text{h } 50\text{min}$
17. $4\text{h } 26\text{min} - 2\text{h } 35\text{min} = 1\text{h } 51\text{min}$
18. $4\text{h } 35\text{min} - 2\text{h } 45\text{min} = 1\text{h } 50\text{min}$
19. $4\text{h } 40\text{min} - 2\text{h } 50\text{min} = 1\text{h } 50\text{min}$
20. $5\text{h } 5\text{min} - 3\text{h } 15\text{min} = 1\text{h } 50\text{min}$