Example of a time relationship question.

Mrs. Smith marks for 20 minutes at a time. After 8 days of marking will she have marked for more than 4 hours?  Defend your position

## Stacking Method

## 1 hour = 60 mins

| 20 mins | 20 mins | 20 mins | 1 hour |
| 20 mins | 20 mins | 20 mins | 1 hour |
| 20 mins | 20 mins |  | 40 mins |

She did not mark for more than 4 hours, she only marked for 2 hours and 40 minutes

## T-chart method

1 hour - 60 mins

| Day | Time |
|-----|------|
| 1 | 20 |
| 2 | 40 | — 1 hour |
| 3 | 60 |
| 4 | 20 |
| 5 | 40 | — 1 hour |
| 6 | 60 |
| 7 | 20 | — 40 mins |
| 8 | 40 |

2 hours, 40 mins

| Day | Time |
|-----|------|
| 1 | 20 |
| 2 | 20 | — 1 hour |
| 3 | 20 |
| 4 | 20 |
| 5 | 20 | — 1 hour |
| 6 | 20 |
| 7 | 20 | — 40 mins |
| 8 | 20 |

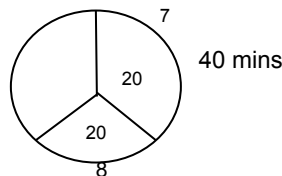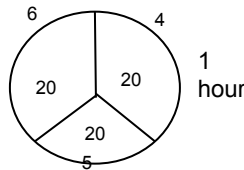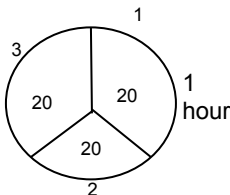2 hours, 40 mins

She did not mark for more than 4 hours, she only marked for 2 hours and 40 minutes

## Clock Method

1 hour = 60mins



1 3 20 20 20 2   1 hour

6 4 20 20 20 5   1 hour

7 20 20 8   40 mins

She did not mark for more than 4 hours, she only marked for 2 hours and 40 minutes

## Equation

8 X 20 = 160

# days       mins

I know 60 mins = 1 hour
So 120 minus = 2 hours

160-120 = 40

So she marked for 2 hours and 40 mins, therefore she did not mark for more than 4 hours

I need to add 8 20's

20 + 20 + 20 = 60 mins = 1 hour
20 + 20 + 20 = 60 mins = 1 hour
20 + 20 = 40

So she marked for 2 hours and 40 mins, therefore she did not mark for more than 4 hours