Recognising intervals on an analogue clock
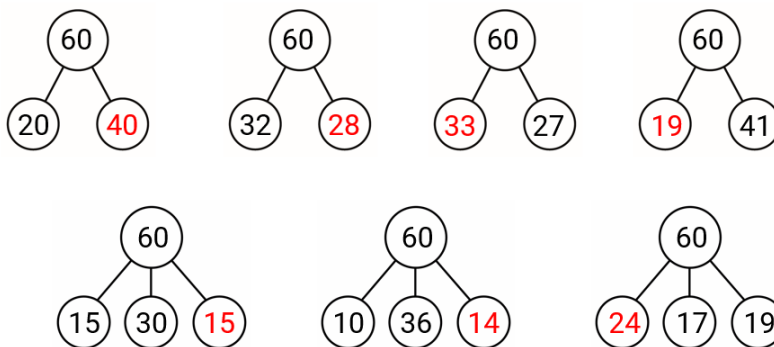
REHEARSE

Complete the part whole models to show complements to 60.

```
     60              60              60              60
    /  \            /  \            /  \            /  \
  20    40        32    28        33    27        19    41
```

```
      60                60                60
     / | \             / | \             / | \
   15 30 15          10 36 14          24 17 19
```

REHEARSE

Look at the quarter section of the clock. How many minutes are shown in the section marked by the arrows?

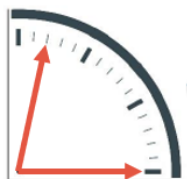5 minutes   10 minutes   15 minutes

8 minutes   11 minutes   12 minutes

APPLY AND EXPLORE

Dipali says that she knows the image shows 13 minutes because 5 minutes + 5 minutes + 3 minutes is equal to 13 minutes.

Can you think of 2 more ways that Dipali could have calculated this? Example responses could include: 10 minutes + 3 minutes = 13 minutes; 15 minutes – 2 minutes = 13 minutes

RETRIEVE

Can I still order fractions?

Put these fractions in order from **largest to smallest.**

$$\frac{1}{2}, \frac{1}{5}, \frac{1}{8}, \frac{1}{12}$$

Explain why you have made your choices. Dependent on children's choices. Children may consider the fact that the larger the denominator, the smaller the equal parts of a whole.
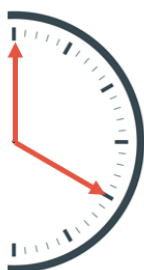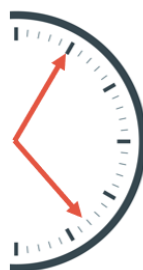
REHEARSE

Look at these sections of a clock face.

How many minutes are shown in the section marked by the arrows?
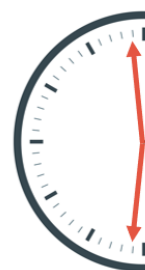
20 minutes   18 minutes   21 minutes   28 minutes

Working clockwise, how many minutes are shown in the section marked by the arrows.

35 minutes   28 minutes   44 minutes   38 minutes

APPLY AND EXPLORE

What changes and what stays the same if you work anti-clockwise, starting from the same hand? Do children recognise that the number of minutes either decreases or increases depending on how many minutes past the hour are shown. Children could use their complements to 60 if calculating the number of minutes.

REHEARSE

How many minutes are there until the next hour?

5 minutes
to the next hour   8 minutes
to the next hour   23 minutes
to the next hour   31 minutes
to the next hour

APPLY AND EXPLORE

Choose 2 of the clocks.
What different ways could you calculate how many minutes are left to the next hour?
Dependent on children's choices of strategies. Children may count back or use other subtracting strategies from 60 minutes. They may count on from 0 using different addition strategies and then subtract this from 60 minutes.