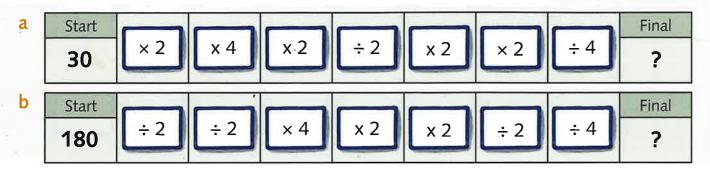
Iultiplication TO x TO using factors

Multiply numbers mentally drawing upon known facts Multiply TO × TO using factors

Halve each number and then halve again.

2 Double each number and then double again.

3 Follow the instructions on the cards to find the final number.



Example

 $480 \rightarrow 240 \rightarrow 120$

Example

 $25 \rightarrow 50 \rightarrow 100$

1 Use the double and halve strategy to find the answers to these calculations. Find the easiest way to work out the answer.



 23×36

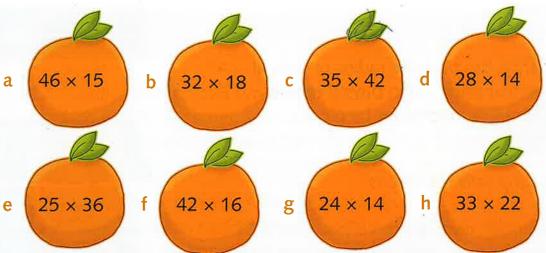
 14×88

Example 14×24 28×12 $56 \times 6 = 336$

 36×13

 24×17

2 Find all the different ways to work out the answers to these calculations by breaking the numbers into their factors. Use the easiest way to work out the answer.



Example 14×24 $= 14 \times 6 \times 4$ $= 14 \times 4 \times 6$ $=24\times7\times2$ $=4\times6\times7\times2$

For some of these calculations using factors is not the best strategy. Find these calculations, and explain why this is the case for each one.

 $.37 \times 17$

 26×15

 23×29

 13×43

 72×46

 27×41