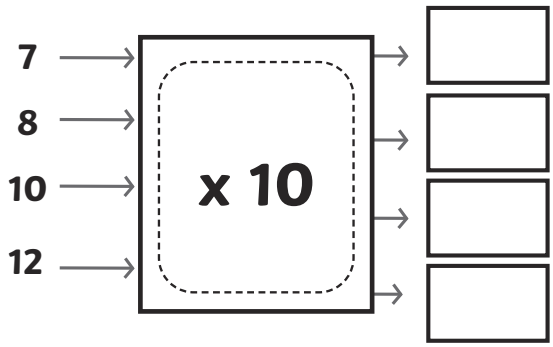
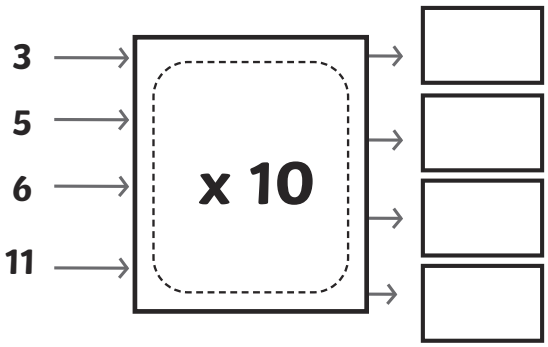
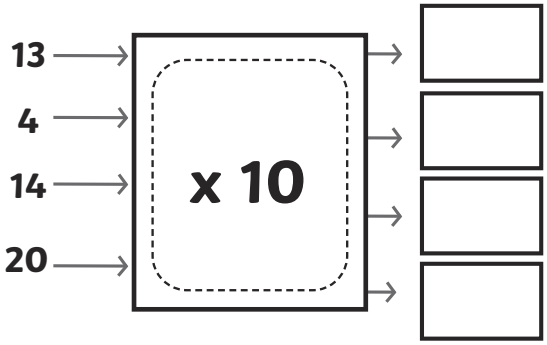
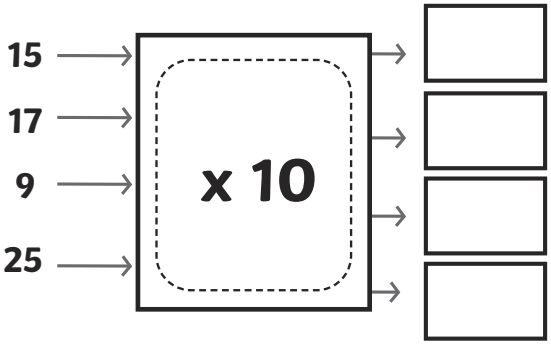
Number Patterns and Investigating Multiplication by Multiples of 10

1 Complete these flow diagrams









From the flow diagrams above, what shortcut can we use when we multiply by 10?

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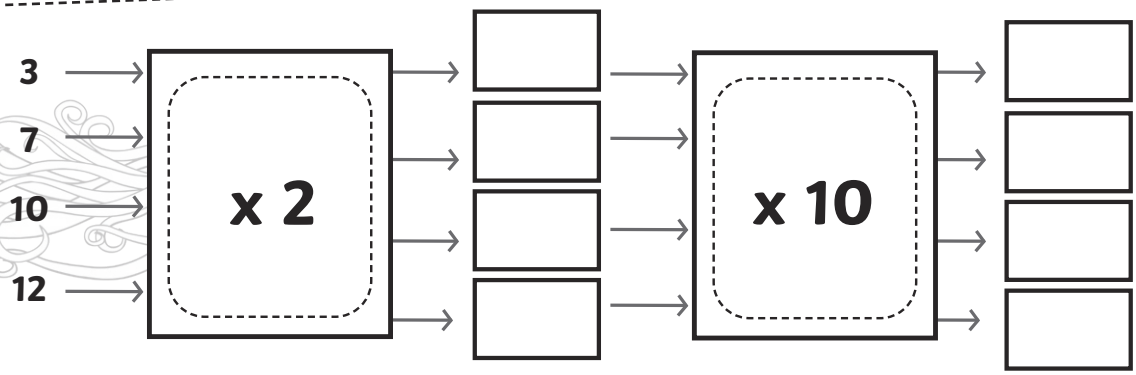
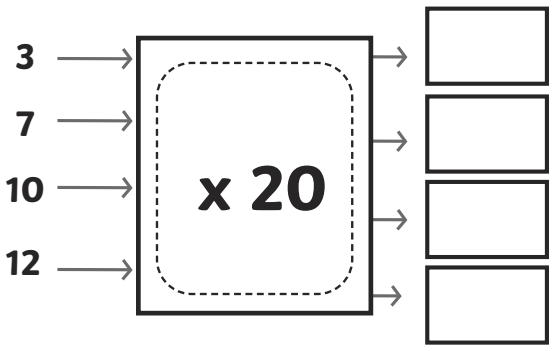
2





What do you notice about the first double flow diagram and the second one below?

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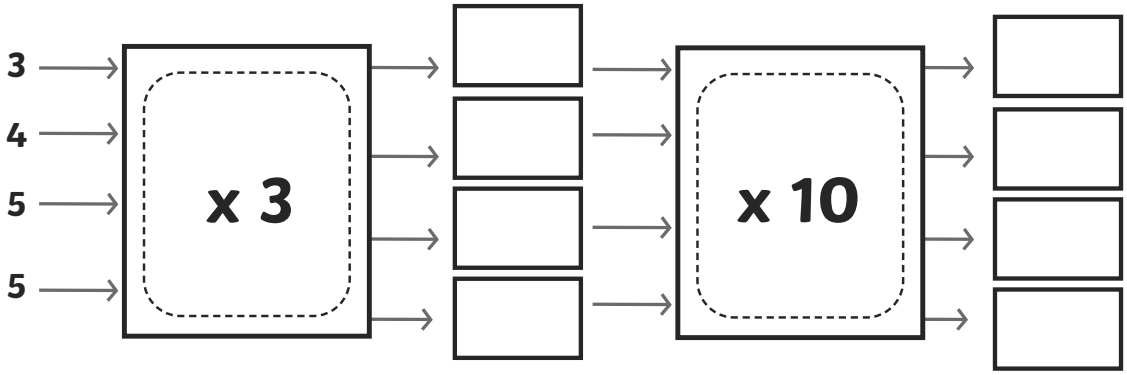
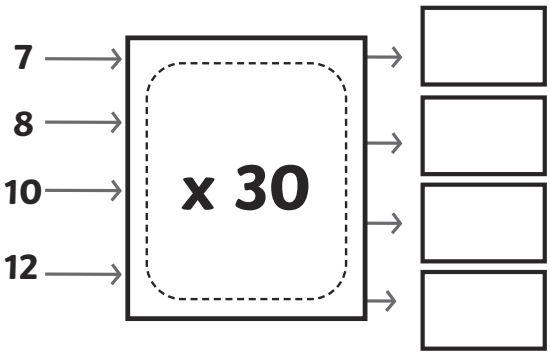
3





What do you notice about the first double flow diagram and the second below?

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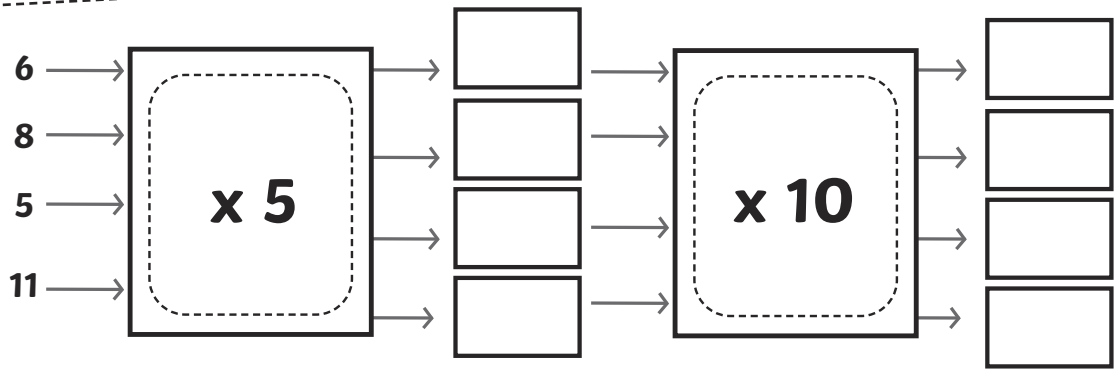
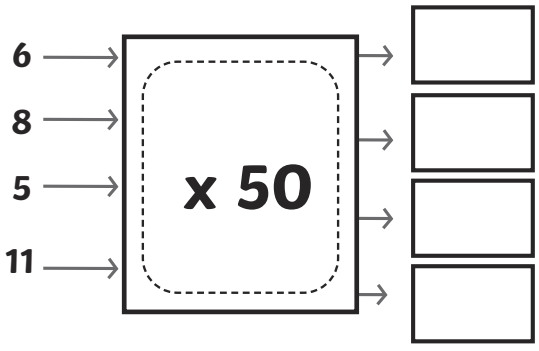
4





What do you notice about the first double flow diagram and the second one below?

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What rule can we use when multiplying by multiples of 10?

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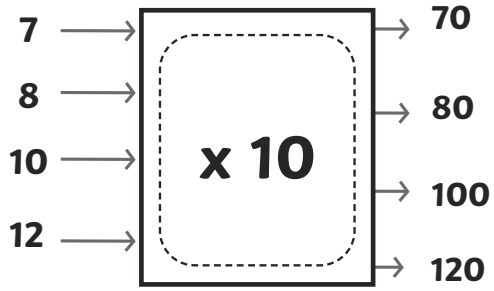
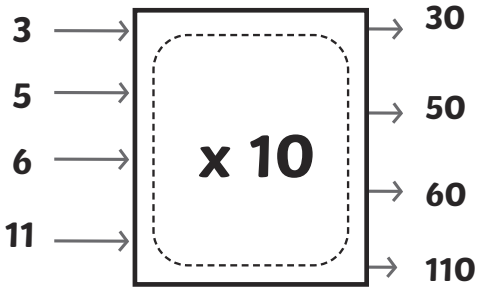
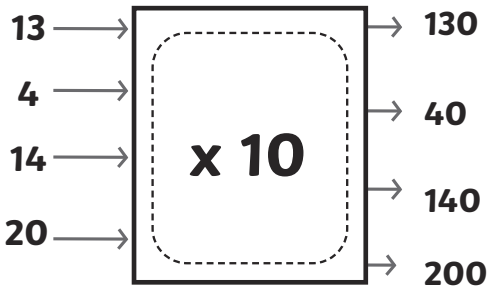
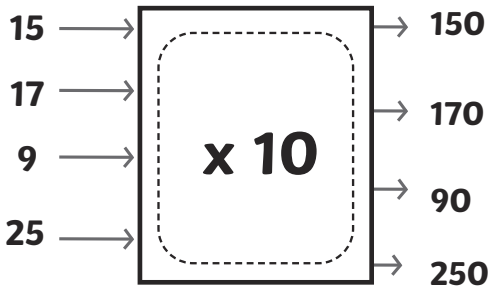
Answers

1 Complete these flow diagrams





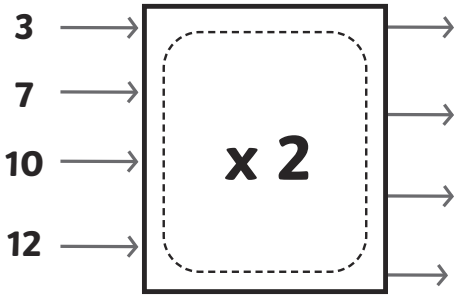


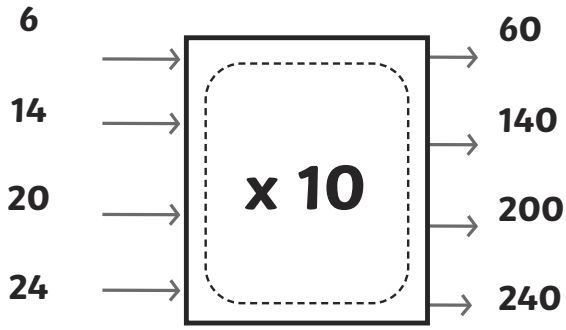


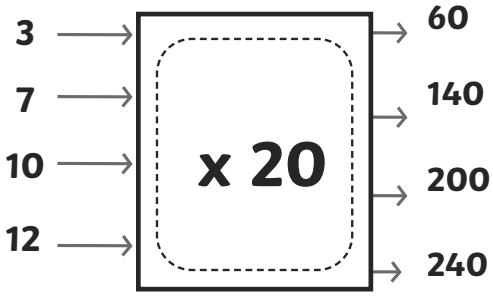
From the flow diagrams above, what shortcut can we use when we multiply by 10?

We can add a zero behind the number we are multiplying by 10 to get the answer.

2



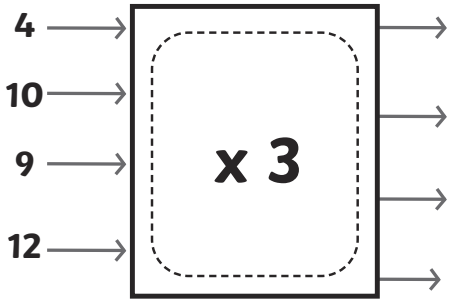


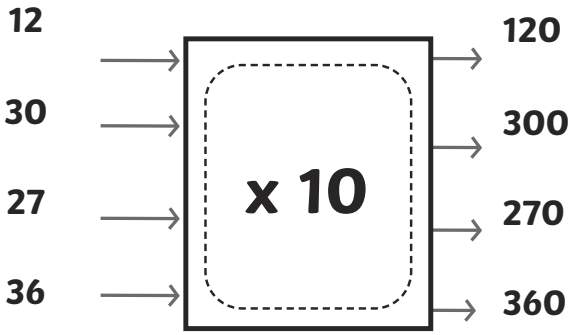


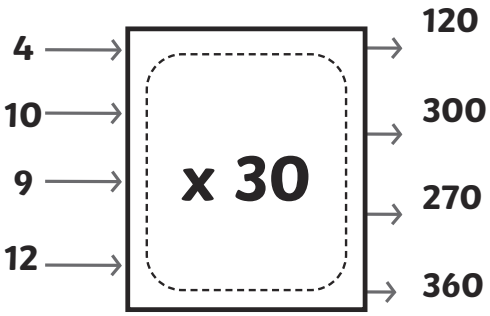
What do you notice about the first double flow diagram and the second one below?

The answers are the same. 2 x 10 is 20, so we are multiplying by the same number.

3



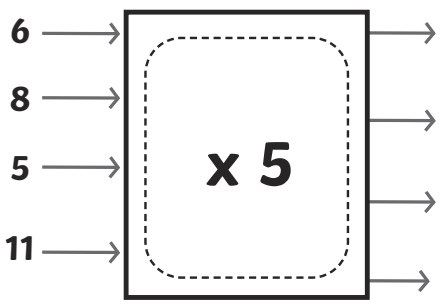


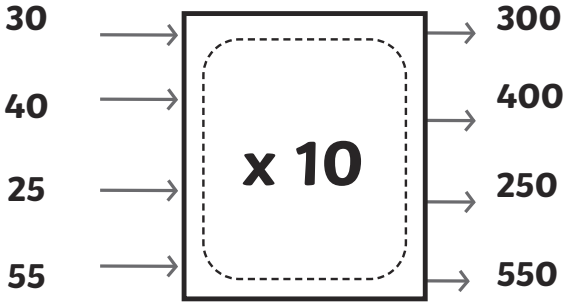


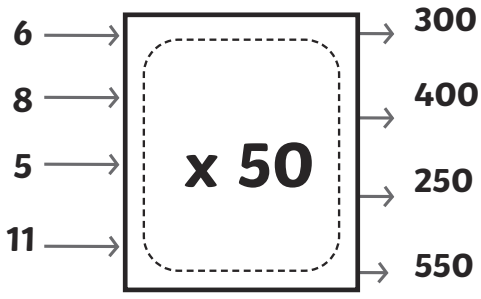
What do you notice about the first double flow diagram and the second below?

The answers are the same. 3 x 10 is 30, so we are multiplying by the same number.

4







What do you notice about the first double flow diagram and the second one below?

The answers are the same. 5 x 10 is 50, so we are multiplying by the same number.

What rule can we use when multiplying by multiples of 10?

When we multiply by a multiple of 10, we can break the multiple down into 10 x the other number.