

Helpful hint 1

The previous year, Ingrid painted fewer faces. On day one she painted two faces. On day two she painted three faces, on day three she painted five faces and on day four she painted eight faces. How many faces did she paint on day eleven?

Solve this problem than have a go at the one above using the same method.

Helpful hint 2

Look at the difference between each day. What do you notice? How will this help you?

Extension

Explain the rule you used to find day eleven.

Extension

Can the children work out how many faces Ingrid will paint on day 28 if she increases her work rate at the same level?

- Ingrid painted 19 faces on day one, 21 faces on day two, 24 faces on day three and 28 on day four. On which day will she have painted 271 faces? (Day 22.) Alternatively, omit details for some of the early days, but leave the pattern visible.
- Sid Tinker is up to his old tricks again, painting post boxes. On the first day he re-paints three post boxes. On the second day he has painted five, on the third, eight and on the fourth he has painted 12. On which day will he have re-painted 80 post boxes? (Day 12.)

Answer:

On day eleven she will paint 69 faces.