

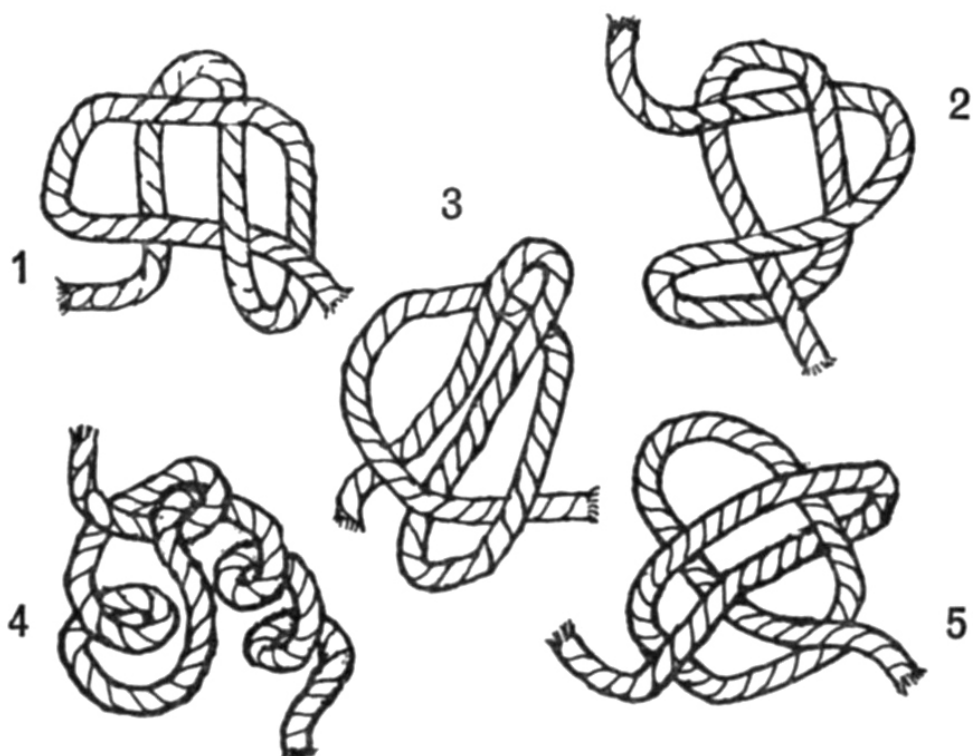
**This practice session will have 3 puzzles for you to solve.**

**If you still feel like doing some maths afterwards – I am also attaching a maths practice sheet with tasks of various difficulty.**

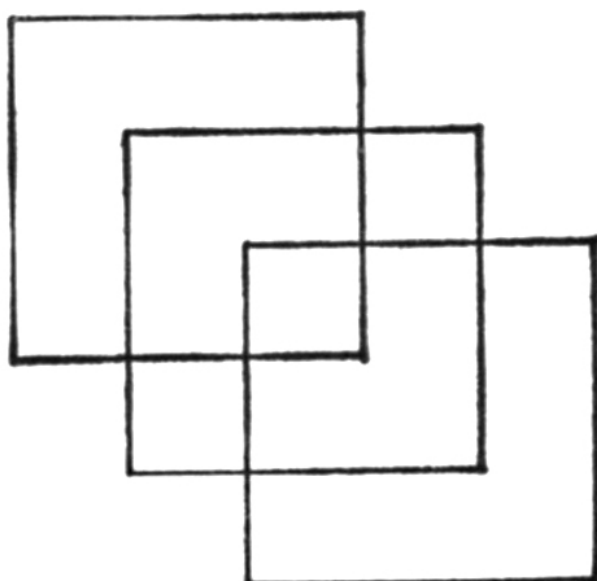
**You do not have to complete it all. Start with tasks that you feel comfortable with and then challenge yourself.**

Pull the ends of each rope shown here and three ropes will tie themselves in knots, and two won't.

Can you pick out the two that won't?



Draw the three squares in one continuous line without crossing any lines or taking your pencil off the paper.



One day in a boring maths lesson, Sue wanted to ask her friend Sally if teacher's pet, Jennie, was top of the class again. So she wrote her a note:

**907 314436 21**

Can you read the message? Use a mirror and read backwards.

Sally wrote back:

$$9 + 0 + 7 + 3 + 1 + 4 + 4 + 3 + 6 + 2 + 1 =$$

Do the sum to find the answer.

The teacher found the notes but instead of being angry with the girls, she praised them, of course, for doing sums!



### Quick maths

- 1 ... + ... + ... = 13
  - 2 How many 5's make up 25?
  - 3 ... x ... = 36
  - 4 I doubled the number added 6 and got 30. What was the number?
  - 5 It is 1.45 a.m. How many hours and minutes until midday?
  - 6  $175 - \dots = 85$
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- 7 What is one twelfth of 120?
  - 8 Half of 184 =
  - 9  $\$29.15 - \$12.30 =$
  - 10  $47 + \dots = 85$
  - 11 ... + 19 + ... = 71
  - 12  $72 - 27 =$
  - 13 What is one fifth of 555?
  - 14 It is 7.15a.m. How many hours and minutes ago was midnight?
  - 15  $1/4$  of 360 =
  - 16 I tripled the number, took away 4 and got 29. What was the number?
  - 17 6 times 5 times 3 take away 12 then divide by 2
  - 18  $4162 + 1902 - 74 + 705 =$
- 
- 19 560 shared between 80 =
  - 20 John went on a 4-day hike. His walking speed was 4km an hour. First day he walked for 7 hours, second day for 8 hours and on the third he only walked for 5 hours. What distance did John cover in that time?
  - 21 Convert these decimal fractions in to common fractions: 2.2; 0.7; 3.7
  - 22 Convert  $21/8$  to a mixed fraction and simplify if possible.
  - 23 To solve these equations, you will need to solve the multiplications before you do the addition. First one is done for you.  $7 + (11 \times 4) = 51$   
 $127 + 69 + (5 \times 6) =$   
 $(17 \times 8) - 47 - 31 =$
  - 24 I had \$74.60. First, I've spent \$18.40, then \$13.55 and finally \$27.90. How much money was I left with?