

## Maths Audit: Interviews for 2019/20

The aim of the audit is to gain information regarding each candidate's initial subject knowledge, as required to teach primary pupils. The results will be used as part of the selection process and as a diagnostic tool to enable successful candidates to be given support and advice about developing subject knowledge before the course begins. This serves a different purpose from the Skills Test that all applicants to ITT are required to take. Candidates for both the FS/KS1 and KS1/KS2 training programmes will be expected to demonstrate a high level of competence in this audit. The interview audit will include a 45 minute written paper asking candidates to answer questions relating to:

### Number and place value

For example:

- understanding place value e.g. the value of the underlined digit in 356.25 is two tenths
- ordering and rounding numbers, including decimal fractions e.g. *Put in descending order 0.067, 0.2, 0.16,*

### Addition, subtraction, multiplication and division

For example:

- mental strategies and written methods to add, subtract, multiply and divide numbers  
*E.g.  $30 \times 29$ ,  $2400$  divided by  $40$ ,  $1796$  divided by  $63$ ,  $176 \times 123$*
- understanding and applying the terminology multiples, factors, square numbers, prime numbers e.g. *name the factors of 24, give a multiple of 24; identify the first 4 prime numbers*

### Fractions, decimals, percentages, ratio and proportion

For example:

- fractions of whole numbers, e.g.  $\frac{1}{6}$  of 330
- adding, subtracting, multiplying and dividing fractions  
*E.g.  $\frac{1}{2} + \frac{1}{5}$   $\frac{3}{4} - \frac{1}{2}$   $\frac{1}{3} \div 2$   $\frac{1}{2} \times \frac{1}{3}$*
- percentages of whole numbers e.g. 35% of 320
- identifying and using simple ratios and proportions (e.g. *if there are 15 red roses and 5 white roses what is the ratio of red to white roses? If there were a 90 red roses how many white roses would there be if the ratio remains the same?*)
- mentally solving simple problems involving percentages e.g. 17.5% of 300
- putting decimal fractions in order of size
- interpreting and solving problems (as on KS2 SAT papers)

Candidates are advised to ensure they understand and can complete the examples given above correctly.

Candidates may also like to use the **2016, 2017 and 2018 KS2 maths SAT tests** to revise and test their knowledge for this audit (the questions get progressively more difficult through the SAT test). These papers give a good indication of the level of subject knowledge required of primary school teachers to teach able KS2 pupils. See:

<http://www.satspapers.org/ks2maths2016onwards.htm>

It is not expected that in the interview audit candidates will be secure in all areas. However, it is important candidates are competent and confident at this level in many areas, as able Year 6 pupils are able to score over 90% on the SCITT audit paper set.

Significant gaps in mathematical subject knowledge will prevent candidates being called to second interview, as this could make it difficult to achieve the QTS standards in a one year course. **You are advised to revise your understanding of mathematics using the information supplied above before arriving for interview.** No calculators will be permitted when undertaking the audit.