The role of domain-general and domain-specific skills in the identification of arithmetic strategies - Materials for domain-specific tasks.

Name: _____

Instructions:

- This is a multiple choice questionnaire which contains some maths problems. For each question, you must decide which parts of the problem can be calculated first to get the correct answer.

- Note: Please choose the option that contains the calculation, or multiple calculations, that **<u>can</u>** be calculated first to get the correct answer. Each question has **<u>one</u>** 'best' answer.

- For each problem, there will be 4 response options. Only select one option per question.

- Please **do not perform any calculations** - you do not have to perform any calculations to select the correct answer.

1.

$33 \times 49 - (27 + 14)$

    (a) $49 - 27$ or $(27 + 14)$

    (b) $49 - 27$

    (c) 33×49 or $49 - 27$

    (d) $(27 + 14)$

2.

$38 \div 19 + 42 - 29$

    (a) $38 \div 19$

    (b) $19 + 42$ or $42 - 29$

    (c) $19 + 42$

    (d) $38 \div 19$ or $19 + 42$

3.

$24 - 15 + 33 + 48$

    (a) $24 + 15$ or $24 + 33$

    (b) $24 - 15$ or $33 + 48$

    (c) $15 + 33$

    (d) $24 - 15$

4.

$42 - 23 + 38 - 19$

    (a) $42 - 23$ or $38 - 19$

    (b) $42 + 23$ or $38 + 19$

    (c) $42 - 23$

    (d) $23 + 38$

5.

$35 + 43 - 24 \div 12$

   (a) $43 - 24$

   (b) $35 + 43$ or $43 - 24$

   (c) $24 \div 12$

   (d) $43 - 24$ or $24 \div 12$

6.

$33 - 16 + 49 - 28$

   (a) $33 - 16$

   (b) $33 - 16$ or $49 - 28$

   (c) $16 + 49$

   (d) $33 + 16$ or $49 + 28$

7.

$19 \times (22 + 47) - 32$

   (a) $(22 + 47)$ or $47 - 32$

   (b) 19×22 or $47 - 32$

   (c) 19×22

   (d) $(22 + 47)$

8.

$27 - 18 + 44 - 35$

   (a) $27 + 18$ or $44 + 35$

   (b) $18 + 44$

   (c) $27 - 18$

   (d) $27 - 18$ or $44 - 35$

9.

$38 - 13 + 23 + 42$

   (a) $13 + 23$

   (b) $38 - 13$

   (c) $38 - 13$ or $23 + 42$

   (d) $38 + 13$ or $38 - 23$

10.

$45 - 26 \times 17 + 32$

   (a) $45 - 26$

   (b) 26×17

   (c) $45 - 26$ or $17 + 32$

   (d) $45 - 26$ or 26×17

11.

$46 - 39 + 14 + 22$

   (a) $46 - 39$

   (b) $46 + 39$ or $46 - 14$

   (c) $46 - 39$ or $14 + 22$

   (d) $39 + 14$

12.

$(24 + 48) \times 37 - 12$

   (a) $(24 + 48)$

   (b) 48×37

   (c) $(24 + 48)$ or 48×37

   (d) 48×37 or $37 - 12$

13.

$43 - 16 + 28 + 39$

   (a) $43 - 16$ or $28 + 39$

   (b) $16 + 28$

   (c) $43 + 16$ or $43 - 28$

   (d) $43 - 16$

14.

$36 - 25 + 43 - 17$

   (a) $25 + 43$

   (b) $36 - 25$

   (c) $36 + 25$ or $43 + 36$

   (d) $36 - 25$ or $43 - 17$