Mental Calculations

1a. Circle the fact that could help you answer this calculation:

30 x 40 x 30

| A. 10 x 4 = 40 | B. 3 x 4 = 12 |
| C. 60 x 4 = 240 | D. 40 x 5 = 200 |

VF

2a. True or false? The calculation below is written in the most efficient order.

£6,500 – £1,900 – £3,500

| Number Bonds to 1,000 |
| 100 + 900, 200 + 800, 300 + 700 400 + 600, 500 + 500 |

VF

3a. Match each number sentence to its approximate answer.

| Key Facts |
| 1,000 – 1,499 rounds down to 1,000 1,500 – 1,999 rounds up to 2,000 |

| A. 1,957 ÷ 2 | 3,000 |
| B. 1,899 + 1,072 | 1,000 |

VF

4a. Find the missing number.

| Key Facts |
| 7 x 5 = 35, 7 x 6 = 42, 7 x 7 = 49 7 x 8 = 56, 7 x 9 = 63, 7 x 10 = 70 |

70 x ☐ = 5,600

VF

Mental Calculations

1b. Circle the facts that could help you answer this calculation:

80 x 30 x 5

| A. 8 x 35 = 280 | B. 8 + 3 + 5 = 16 |
| C. 20 x 30 = 600 | D. 80 x 30 = 2,400 |

VF

2b. True or false? The calculation below is written in the most efficient order.

£5,600 – £2,600 – £1,800

| Number Bonds to 1,000 |
| 100 + 900, 200 + 800, 300 + 700 400 + 600, 500 + 500 |

VF

3b. Match each number sentence to its approximate answer.

| Key Facts |
| 1,000 – 1,499 rounds down to 1,000 1,500 – 1,999 rounds up to 2,000 |

| A. 1,019 ÷ 2 | 500 |
| B. 1,924 + 1,897 | 4,000 |

VF

4b. Find the missing number.

| Key Facts |
| 9 x 5 = 45, 9 x 6 = 54, 9 x 7 = 63 9 x 8 = 72, 9 x 9 = 81, 9 x 10 = 90 |

90 x ☐ = 6,300

VF

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Varied Fluency – Mental Calculations – Year 6 Developing

Mental Calculations

5a. Circle the facts that could help you answer this calculation:

60 x 11 x 50

A. 10 x 10 = 100	B. 60 x 11 = 660

C. 5 x 6 = 30	D. 50 x 11 = 550

VF

6a. True or false?

The calculation below is written in the most efficient order.

£5,850.95 – £2,475.50 – £1,350.95

VF

7a. Match each number sentence to its approximate answer.

A. 7,586 ÷ 3		4,000
B. 2,978 + 969		2,500
C. 7,012 – 3,519		3,500

VF

8a. Find the missing number.

80 x ☐ x 3 = 9,600

VF

Mental Calculations

5b. Circle the facts that could help you answer this calculation:

40 x 12 x 30

A. 12 x 4 = 48	B. 8 x 6 = 48

C. 1 x 12 = 12	D. 30 x 12 = 360

VF

6b. True or false?

The calculation below is written in the most efficient order.

£3,291.43 + £3,278.19 + £2,708.57

VF

7b. Match each number sentence to its approximate answer.

A. 5,988 ÷ 6		3,000
B. 1,543 + 1,498		4,000
C. 8,982 – 5,017		1,000

VF

8b. Find the missing number.

90 x ☐ x 5 = 9,000

VF

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Varied Fluency – Mental Calculations – Year 6 Expected

Mental Calculations

9a. Circle the facts that could help you answer this calculation:

50 x 70 x 12 x 60

A. 7 x 5 = 35

B. 5 x 7 x 12 = 420

C. 60 x 11 = 660

D. 90 x 70 = 6,300

GD   VF

Mental Calculations

9b. Circle the facts that could help you answer this calculation:

30 x 90 x 4 x 45

A. 9 x 8 = 72

B. 9 x 12 = 108

C. 3 x 9 x 4 = 108

D. 4 x 90 = 360

GD   VF

10a. True or false?

The calculation below is written in the most efficient order.

£3,416.82 + £2,698.50 + £583.18 − £398.50

GD   VF

10b. True or false?

The calculation below is written in the most efficient order.

£5,347.29 + £978.75 + £1,652.71 − £478.25

GD   VF

11a. Match the number sentence to its approximate answer.

five thousand, two hundred and seventy three + 3,689 – one thousand, four hundred and seventy six

8,500   7,500   6,500

GD   VF

11b. Match the number sentence to its approximate answer.

six thousand, eight hundred and seventy nine – 2,914 + five thousand, four hundred and eighty six

7,500   9,500   8,500

GD   VF

12a. Find the missing number.

40 x ☐ x six x ten = 24,000

GD   VF

12b. Find the missing number.

12,000 ÷ ☐ ÷ six ÷ 20 = five

GD   VF

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