Year 6

Mathematics

Arithmetic: Paper 3

Name	
Date	

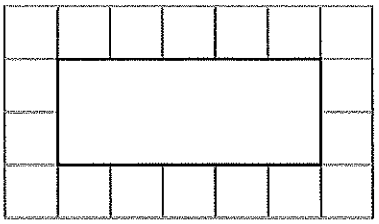


You must not use a calculator to answer any questions in this test.

Year 6 methods used at OHI.

Questions and answers

You have **30 minutes** to complete this test.
Work as quickly and as carefully as you can.
Put your answer in the box for each question.

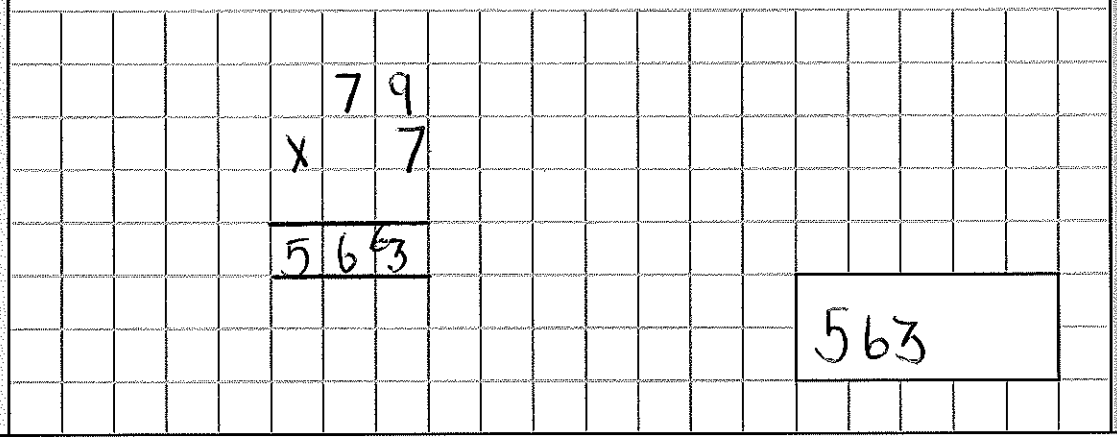


If you cannot do a question, **go on to the next one**.
You can come back to it later, if you have time.
If you finish before the end, **go back and check your work**.

/40
total marks

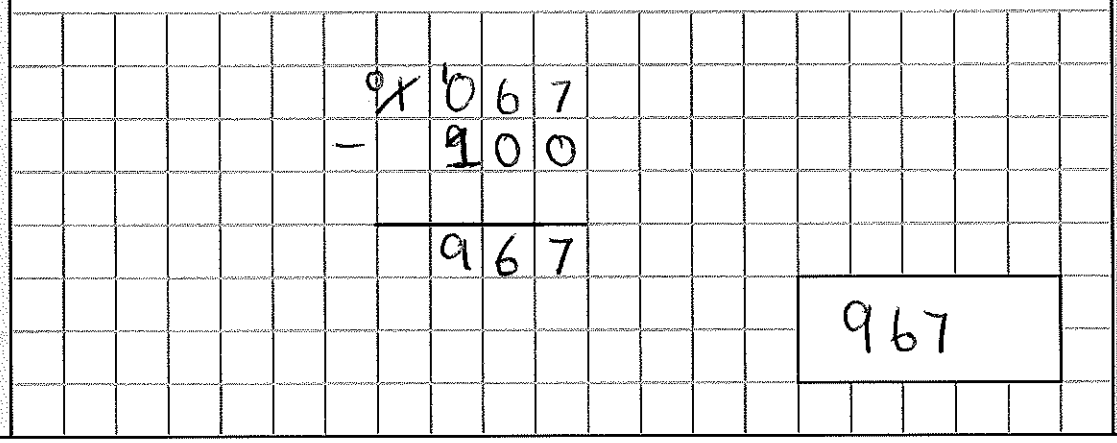
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1 79 × 7 =



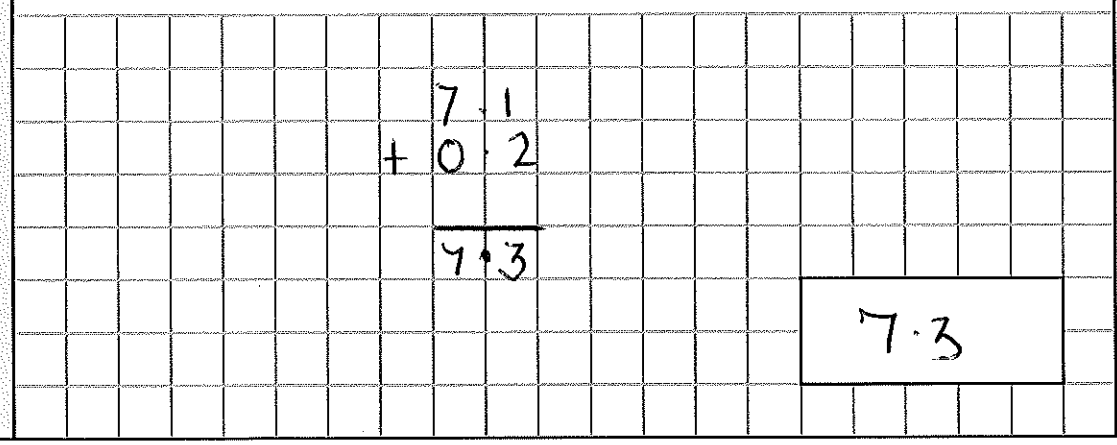
1 mark

2 1067 − 100 =



1 mark

3 7.1 + 0.2 =



1 mark

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4 $21 \times 7 =$

$$\begin{array}{r} 21 \\ \times\ 7 \\ \hline 147 \end{array}$$

147

1 mark

5 $2687 + 698 =$

$$\begin{array}{r} 2687 \\ +\ 698 \\ \hline 3385 \\ {\scriptstyle 1\,1\,1} \end{array}$$

3385

1 mark

6 $12 \times 11 =$

mental or

$$12 \times 11 =$$

$$\begin{array}{r} 12 \\ \times\ 11 \\ \hline 12 \\ 120 \\ \hline +\ 132 \end{array}$$

132

1 mark

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7 $596 + 7 =$

mental

603

1 mark

8 $\frac{7}{9} - \frac{2}{9} =$

mental

$\frac{5}{9}$

1 mark

9 $232 \times 0 =$

mental

0

1 mark

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10 $0.2 + 0.04 =$

$$\begin{array}{r} 0.20 \\ +\ 0.04 \\ \hline 0.24 \end{array}$$

0.24

1 mark

11 $5^2 + 2^2 =$

$5 \times 5 = 25$

$2 \times 2 = 4$

29

1 mark

12 $2.172 \times 1000 =$

2.172

3 spaces to the right

2172

1 mark

Or

$2.172 \div 1000$

0.002172 3 spaces to the left.

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13 ☐ = 8825 + 7061

8825
7061
15886

15886

1 mark

14 $\frac{1}{6} + \frac{5}{6} =$

$\frac{1}{6} + \frac{5}{6} = \frac{6}{0} = 1$

1 or $\frac{6}{6}$

1 mark

15 8 × 800 =

8 x 8 = 64
64 x 10 = 640
64 x 100 = 6400

6400

1 mark

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16 10 × 1000 =

10,000

1 mark

17 307 − 24.7 =

$$\begin{array}{r} {}^{2}\cancel{3}0\,{}^{6}\cancel{7}.{}^{1}0 \\ -\quad 2\,4.\,7 \\ \hline 2\,8\,2.\,3 \end{array}$$

282.3

1 mark

18 1080 ÷ 9 =

$$\begin{array}{r} 0\,1\,2\,0 \\ \hline 9\,\big|\,1\,{}^{1}0\,{}^{1}8\,0 \end{array}$$

120

1 mark

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19 20% of 1800 =

10% = 180
20% = 360

360

1 mark

20 6.01 × 7 =

$$\begin{array}{r} 6.01 \\ \times \quad 7 \\ \hline 42.07 \end{array}$$

42.07

1 mark

21 90 000 − 90 =

$$\begin{array}{r} 89\,990 \\ - \quad 90 \\ \hline 89\,910 \end{array}$$

89,910

1 mark

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22 20.3 − 12.09 =

$$\begin{array}{r} 12\,0.^{2}3^{1}0 \\ -\;1\;2\cdot 0\;9 \\ \hline 8\cdot 2\;1 \end{array}$$

8.21

1 mark

23 7045 ÷ 4 =

$$\begin{array}{r} 1\;7\;6\;1 \text{ r } 1 \\ 4\overline{)\,7\,^{3}0\,^{2}4\,5} \end{array}$$

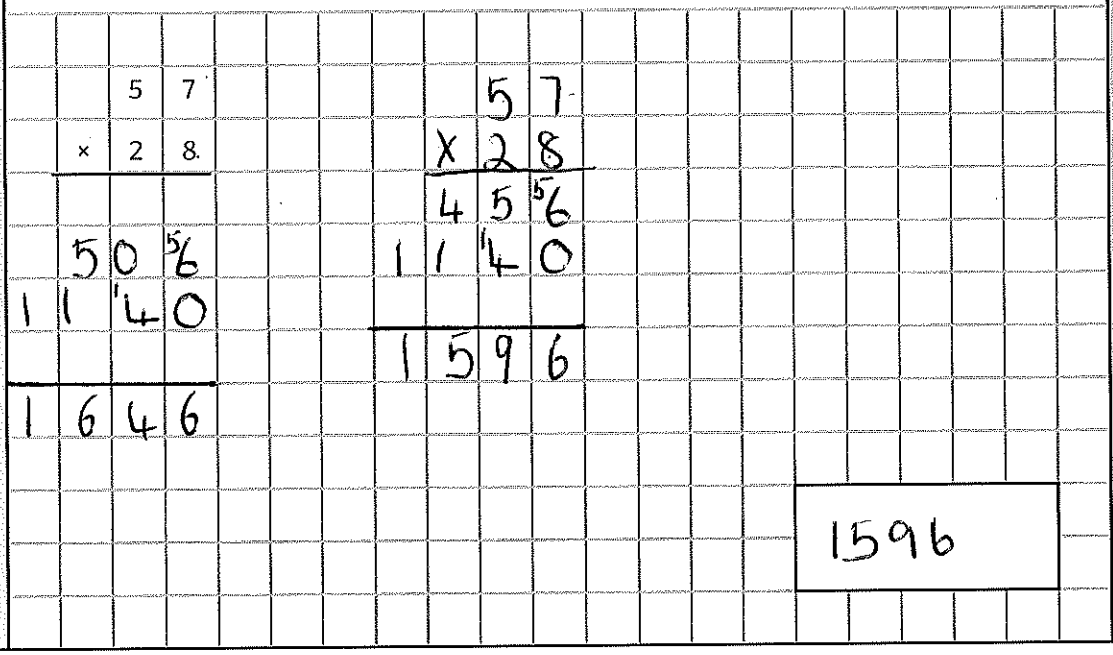
1761 r1
1761 $\frac{1}{4}$
1761.25

1 mark

Any of these is excepted

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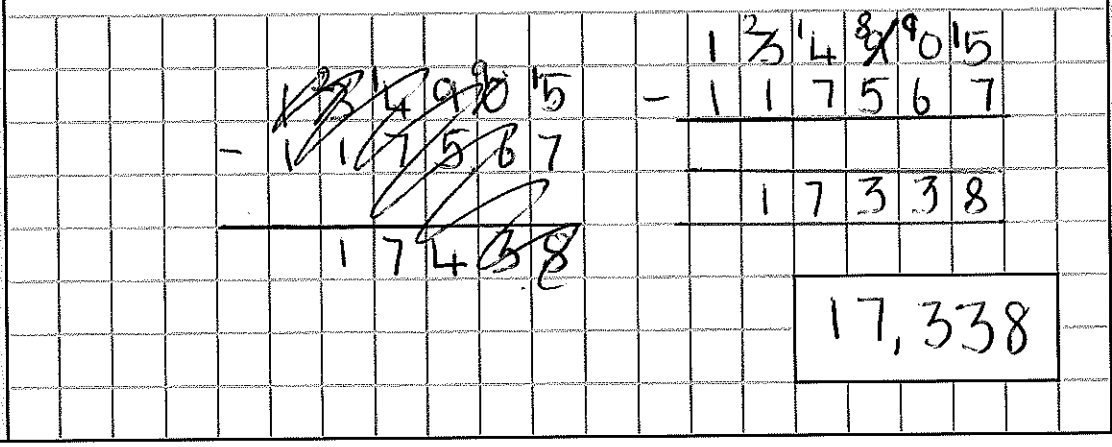
24 57 × 28 =



1596

2 marks

25 134 905 − 117 567 =



17,338

1 mark

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26 $\frac{2}{3} \times \frac{1}{3} =$

$\frac{2}{3} \times \frac{1}{3} = \frac{2}{9}$

$\frac{2}{9}$

1 mark

27 3612 ÷ 12 =

												1	x	1	2	=	1	2		
												2	x	1	2	=	2	4		
	1	2	3	6	1	2						3	x	1	2	=	3	6		
	−		3	6	0	0	(	3	0	0)		4	x	1	2	=	4	8		
			0	0	1	2						5	x	1	2	=	6	0		
		−			1	2	(	1	)	1	0	x	1	2	=	1	2	0		
			0	0	0	0					1	0	0	x	1	2	=	1	2	0	0
											2	0	0	x	1	2	=	2	4	0	0
3	0	0	+	1	=	3	0	1		3	0	0	x	1	2	=	3	6	0	0

301

2 marks

↑ this is called the chunking method.

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28 $\frac{2}{5} \div 2 =$

$\frac{2}{5} \div \frac{2}{1}$ — turn 2 into an improper fraction

then flip operation and improper fraction

$\frac{2}{5} \times \frac{1}{2} = \frac{2}{10} = \frac{1}{5}$

$\frac{1}{5}$

1 mark

29 $15 \times 1\frac{1}{2} =$

$15 \times 1 = 15$ - bank

turn into improper fraction → $\frac{15}{1} \times \frac{1}{2} = \frac{15}{2} = 7\frac{1}{2}$

$15 + 7\frac{1}{2} = 22\frac{1}{2}$

$22\frac{1}{2}$.

1 mark

30 $1\frac{7}{10} + \frac{2}{3} =$

Bank 1

$\times 3 \left(\frac{7}{10} + \frac{2}{3}\right) \times 3$

$\frac{21}{30} + \frac{20}{30}$

$\frac{41}{30} = 1\frac{11}{30}$

$1 + 1\frac{11}{30} = 2\frac{11}{30}$

$2\frac{11}{30}$

1 mark

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31 912 × 67 =

		9	1	2
	×		6	7
	6	3	8	4
5	4	7	2	0
1	1	1		
6	1,	1	0	4

61,104

2 marks

32 25 ÷ (12 − 7) = BIDMAS

25 ÷ (12 − 7)

↓

25 ÷ 5 = 5

5

1 mark

Order of operations

1. Brackets
2. Indices (^{2}) (^{3})
3. Division
4. Multiplication
5. Addition
6. Subtraction

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33 65% of 360 =

50% = 180
10% = 36
5% = 18
11
234

234

1 mark

34 $\frac{3}{4} - \frac{1}{5}$ = find common denominator / multiple

x5 ($\frac{15}{20}$ $\frac{4}{20}$ = $\frac{11}{20}$

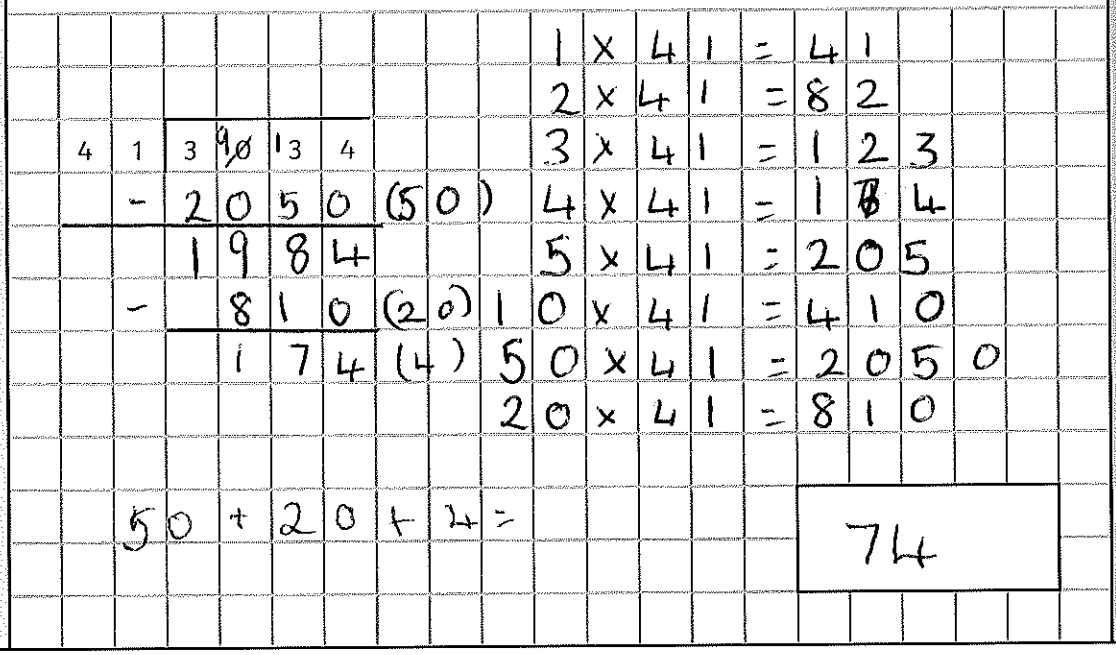
$\frac{11}{20}$

1 mark

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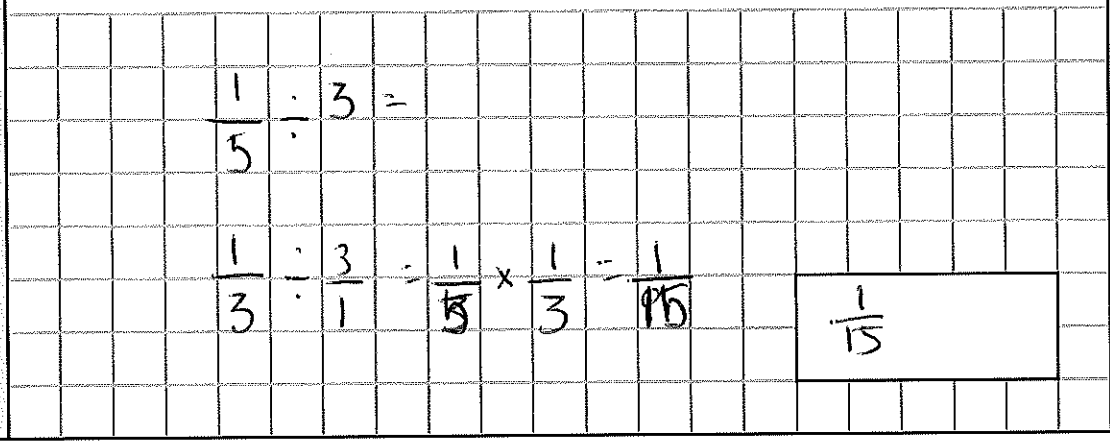
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35 3034 ÷ 41 =



2 marks

36 $\frac{1}{5} \div 3 =$



1 mark

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