

Maths Mastery

Mental Calculations

Challenge Cards



Maths Mastery - Mental Calculations

1. Perform these mental calculations, explaining your method:

$$2500 \times 15 =$$

$$16 \times 502 =$$

$$27\,200 + 34\,024 =$$

$$5906 - 2801 =$$

$$56\,000 \div 700 =$$

$$289\,000 + 3561 =$$

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2. Perform these mental calculations, explaining your method:

$$30 \times 5 + 267 =$$

$$(138 + 99) \times 3 =$$

$$4500 \div 9 - 143 =$$

$$780 \times 3 - 1340 =$$

$$(1340 + 1160) \div 50 =$$

$$1400 \div (37 + 33) =$$

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$$267 \times 76 = 20\,292$$

3. Use this fact to calculate:

$$26.7 \times 7.6 =$$

$$2.67 \times 760 =$$

$$267 \times 0.76 =$$

$$26.7 \times 76\,000 =$$

$$20\,292 \div 7.6 =$$

$$202.92 \div 26.7 =$$

$$10\,146 \div 76 =$$

4. Calculate the mean of these numbers in your head:



23, 29, 39, 13,
16, 24

5. Which calculation is the odd one out.

$$134 + 216 =$$

$$1400 \div 4 =$$

$$5 \times 70 =$$

$$70\% \text{ of } 500 =$$

$$965 - 715 =$$



6. Explain 3 different ways of calculating this in your head:

$$234 \times 9 =$$



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Answers

1. $2500 \times 15 = 37\,500$
 $16 \times 502 = 8032$
 $27\,200 + 34\,024 = 61\,224$
 $5906 - 2801 = 3105$
 $56\,000 \div 700 = 80$
 $289\,000 + 3561 = 292\,561$
2. $30 \times 5 + 267 = 417$
 $(138 + 99) \times 3 = 711$
 $4500 \div 9 - 143 = 357$
 $780 \times 3 - 1340 = 1000$
 $(1340 + 1160) \div 50 = 50$
 $1400 \div (37 + 33) = 20$
3. $26.7 \times 7.6 = 202.92$
 $2.67 \times 760 = 2029.2$
 $267 \times 0.76 = 202.92$
 $26.7 \times 76\,000 = 2\,029\,200$
 $20\,292 \div 7.6 = 2670$
 $202.92 \div 26.7 = 7.6$
 $10\,146 \div 76 = 133.5$
4. $144 \div 6 = 24$
5. $134 + 216 = 350$
 $1400 \div 4 = 350$
 $5 \times 70 = 350$
 $70\% \text{ of } 500 = 350$
 $965 - 715 = 250$
6. $234 \times 10 - 234 = 2340 - 234 = 2106$
Double 234 3 times and add 234 = 468, 936, 1872 + 234 = 2106
 $200 \times 9 + 30 \times 9 + 4 \times 9 = 1800 + 270 + 36 = 2106$
Other ways may be possible.