

Mental Calculations

1a. Find a way to solve the calculations using mental calculations.

A. 354×7

B. $287 \div 7$

Key Facts

$$\begin{aligned} 7 \times 1 &= 7 \\ 7 \times 2 &= 14 \\ 7 \times 3 &= 21 \\ 7 \times 4 &= 28 \\ 7 \times 5 &= 35 \end{aligned}$$



PS

Mental Calculations

1b. Find a way to solve the calculations using mental calculations.

A. 513×6

B. $246 \div 6$

Key Facts

$$\begin{aligned} 6 \times 1 &= 6 \\ 6 \times 2 &= 12 \\ 6 \times 3 &= 18 \\ 6 \times 4 &= 24 \\ 6 \times 5 &= 30 \end{aligned}$$



PS

2a. Harry is solving the calculation $80 \times 4 \times 2$.



I did $80 \times 4 = 32$,
then $32 \times 2 = 64$.

Is he correct? Convince me.

Key Facts

$$\begin{aligned} 4 \times 5 &= 20, 4 \times 6 = 24, 4 \times 7 = 28 \\ 4 \times 8 &= 32, 4 \times 9 = 36, 4 \times 10 = 40 \end{aligned}$$



R

2b. Sumiya is solving the calculation $70 \times 3 \times 2$.



I did $70 \times 3 = 210$,
then $210 \times 2 = 410$.

Is she correct? Convince me.

Key Facts

$$\begin{aligned} 7 \times 5 &= 35, 7 \times 6 = 42, 7 \times 7 = 49 \\ 7 \times 8 &= 56, 7 \times 9 = 63, 7 \times 10 = 70 \end{aligned}$$



R

3a. Use rounding and estimation to find the odd one out.

$£1,961 - £1,056$

$£2,000$

$£1,000$

Explain your reasoning.

Key Facts

$$\begin{aligned} 1,000 - 1,499 &\text{ rounds down to } 1,000 \\ 1,500 - 1,999 &\text{ rounds up to } 2,000 \end{aligned}$$



R

3b. Use rounding and estimation to find the odd one out.

$£1,126 + £1,878$

$£3,000$

$£2,000$

Explain your reasoning.

Key Facts

$$\begin{aligned} 1,000 - 1,499 &\text{ rounds down to } 1,000 \\ 1,500 - 1,999 &\text{ rounds up to } 2,000 \end{aligned}$$



R

Mental Calculations

4a. Find 2 different ways to solve the calculations using mental calculations.

A. 225×9

B. $4,880 \div 80$



PS

Mental Calculations

4b. Find 2 different ways to solve the calculations using mental calculations.

A. 423×12

B. $4,260 \div 60$



PS

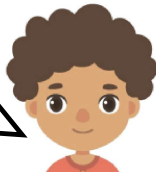
5a. Steph and Joshua are solving the calculation $125 \times 4 \times 12$.



Steph

I did $125 \times 4 = 500$, $500 \times 10 = 5,000$ and $5,000 \times 2 = 10,000$.

I did $125 \times 4 = 500$, $500 \times 10 = 5,000$ and $500 \times 2 = 1,000$ then $5,000 + 1,000 = 6,000$.



Joshua

Who is correct? Convince me.



R

5b. Milly and Ivan are solving the calculation $150 \times 7 \times 20$.



Milly

I did $150 \times 20 = 3,000$ then $3,000 \times 7 = 21,000$.

I did $150 \times 20 = 3,000$ and $3,000 \times 7 = 21,000$ then $3,000 + 21,000 = 24,000$.



Ivan

Who is correct? Convince me.



R

6a. Find the approximate answer to the calculations to identify the odd one out.

A. $\pounds 9,084.05 - \pounds 1,449.50$

$\pounds 8,500$

$\pounds 7,000$

$\pounds 7,500$

B. $\pounds 3,504.67 + \pounds 4,913.35$

Explain your reasoning.



R

6b. Find the approximate answer to the calculations to identify the odd one out.

A. $\pounds 7,496.12 - \pounds 4,518.92$

$\pounds 3,700$

$\pounds 4,500$

$\pounds 3,000$

B. $\pounds 2,139.95 + \pounds 1,602.10$

Explain your reasoning.



R

Mental Calculations

7a. Find 2 different ways to solve the calculations using mental calculations.

A. $438 \times \text{nine} \div 3$

B. $608 \times \text{eight} \div 4$



PS

Mental Calculations

7b. Find 2 different ways to solve the calculations using mental calculations.

A. $403 \times \text{twelve} \div 6$

B. $316 \times \text{two} \div 8$



PS

8a. There are sixty crates which contain two hundred and fifteen eggs each. Three shop owners buy an equal amount each.

Lila is trying to work out how many eggs each shop owner had.



Lila

I did $215 \times 60 = 12,090$, then $12,090 \div 3 = 6,030$.

Is she correct? Convince me.



R

8b. There are forty jars containing one hundred and five sweets each. Seventy people buy an equal amount each.

Jason is trying to work out how many sweets each person had.



Jason

I did $105 \times 40 = 4,400$, then $4,400 \div 70 = 70$.

Is he correct? Convince me.



R

9a. Find the approximate answer to the calculations to identify the odd one out.

A. $\pounds 3,712.59 + \pounds 4,279.36 - \pounds 2,462.08$

$\pounds 5,500$

$\pounds 7,500$

$\pounds 6,600$

B. $\pounds 9,304.12 - \pounds 4,291.38 + \pounds 1,613.84$

Explain your reasoning.



R

9b. Find the approximate answer to the calculations to identify the odd one out.

A. $\pounds 4,419.24 + \pounds 2,657.95 - \pounds 1,503.49$

$\pounds 7,100$

$\pounds 6,500$

$\pounds 5,600$

B. $\pounds 8,604.91 - \pounds 2,991.04 + \pounds 1,499.85$

Explain your reasoning.



R