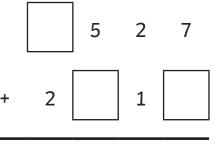# Year 6 Reasoning Quiz 2

Missing Number Questions

1. Write the three missing digits to make this addition correct.

$$
\begin{array}{r}
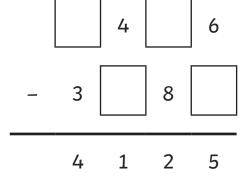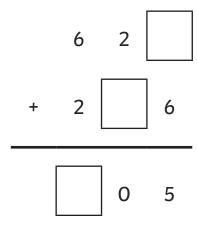\boxed{}\ 5\ 2\ 7 \\
+\ \ 2\ \boxed{}\ 1\ \boxed{} \\
\hline
6\ 0\ 4\ 3
\end{array}
$$

2. Write the four missing digits to make this subtraction correct.

$$
\begin{array}{r}
\boxed{}\ 4\ \boxed{}\ 6 \\
-\ \ 3\ \boxed{}\ 8\ \boxed{} \\
\hline
4\ 1\ 2\ 5
\end{array}
$$

3. Write the three missing digits to make this addition correct.

$$
\begin{array}{r}
6\ 2\ \boxed{} \\
+\ \ 2\ \boxed{}\ 6 \\
\hline
\boxed{}\ 0\ 5
\end{array}
$$

4. Write the three missing digits to make this subtraction correct.

$$
\begin{array}{ccc}
7 & 1 & \boxed{} \\
-\ 4 & \boxed{} & 3 \\
\hline
\boxed{} & 9 & 3 \\
\end{array}
$$

5. Write the two missing digits to make this long multiplication correct.

$$
\begin{array}{ccc}
5 & \boxed{} & \\
\times\ \boxed{} & 4 & \\
\hline
2 & 2 & 8 \\
1\quad 1 & 4 & 0 \\
\hline
1\quad 3 & 6 & 8 \\
\end{array}
$$

6. Complete this division calculation by filling in the missing numbers.

$$
\begin{array}{r}
2\ \ 6\ \ 5 \\
1\,\boxed{}\,\big)\ \boxed{}\ 5\ \boxed{}\ 5 \\
3\ \ 4 \\
1\ \ 1\ \ \boxed{} \\
1\ \ 0\ \ 2 \\
\boxed{}\ \ 5 \\
\boxed{}\ \ 5 \\
0\ \ 0 \\
\end{array}
$$

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Word Questions

7. There are 80 pencils in a pack.
   There are 4 children who are given 6 pencils each from the pack.
   How many pencils are left in the pack?

   Show your method.

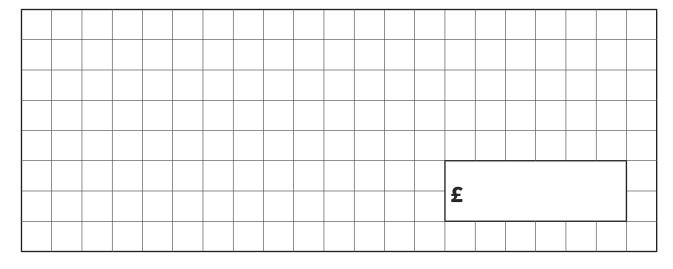8. Five children go to the cinema.
   Large popcorn costs £3.75
   Drink costs £2.40
   They share the cost equally of buying 2 popcorns and 3 drinks.
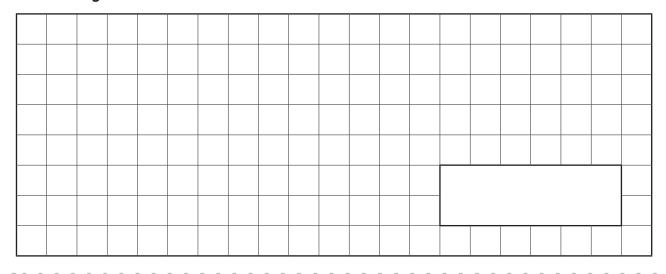   How much does each child pay?

   Show your method.

   £

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9. Julia chooses a number between 50 and 100.
   She halves the number and adds 15.
   She divides this result by 3. Her answer is 19.
   What was the number she started with?

   Show your method.

10. Mr Lucas is making some jam to sell at a school fair.
    Raspberries cost £7.25 per kg
    Sugar costs 85p per kg
    6 glass jars cost £1.80
    He used 15kg of raspberries and 8kg of sugar to make 30 jars of jam.
    Calculate the total cost to make 30 jars of jam.

    Show your method.

    £

END OF TEST

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Reasoning Quiz 2

1   3527 + 2516 = 6043

2   7406 − 3281 = 4125

3   629 + 276 = 905

4   716 − 423 = 293

5   57 × 24 = 1368

6

```
              2  6  5
   1  7 | 4   5  0   5
           3  4
        1  1  0
        1  0  2
              8  5
              8  5
              0  0
```

7   56 pencils

8   £2.94

9   84

10 £124.55