



CTSC MATHS THINKER



Grade 5 - Long Division

We are trying out LONG DIVISION to challenge the Grade 5 maths skills.

QUESTIONS:

1. $15 \overline{) 309}$

2. $24 \overline{) 2621}$

3. $47 \overline{) 4910}$

4. What is the quotient if the divisor is 30 and the dividend is 9005?

5. Cavendish Movie Theatre can seat 2,060 people in total. There are ten auditorium rooms in the theatre. Each room can hold the same number of people except for the tenth room, which can hold 10 more people than the other rooms. How many people can each room seat?

6. 125 learners have signed up to go on a school field trip. The learners will be transported by parents and there are a total of twenty vehicles to transport them. Each vehicle will transport the same number of learners. How many learners will go in each vehicle and will they need another vehicle? Explain

MEMORANDUM:

Question 1

$$\begin{array}{r} 0 \ 2 \ 0 \\ 1 \ 5 \overline{) 3 \ 0 \ 9} \\ \underline{0} \\ 3 \ 0 \\ \underline{3 \ 0} \\ 0 \ 9 \\ \underline{0} \\ 9 \end{array}$$

Question 2

$$\begin{array}{r}
 0 \ 1 \ 0 \ 9 \\
 2 \ 4 \overline{) 2 \ 6 \ 2 \ 1} \\
 \underline{0} \\
 2 \ 6 \\
 \underline{2 \ 4} \\
 2 \ 2 \\
 \underline{0} \\
 2 \ 2 \ 1 \\
 \underline{2 \ 1 \ 6} \\
 5
 \end{array}$$

Question 3

$$\begin{array}{r}
 0 \ 1 \ 0 \ 4 \\
 4 \ 7 \overline{) 4 \ 9 \ 1 \ 0} \\
 \underline{0} \\
 4 \ 9 \\
 \underline{4 \ 7} \\
 2 \ 1 \\
 \underline{0} \\
 2 \ 1 \ 0 \\
 \underline{1 \ 8 \ 8} \\
 2 \ 2
 \end{array}$$

Question 4

$$\begin{array}{r}
 0 \ 3 \ 0 \ 0 \\
 3 \ 0 \overline{) 9 \ 0 \ 0 \ 5} \\
 \underline{0} \\
 9 \ 0 \\
 \underline{9 \ 0} \\
 0 \ 0 \\
 \underline{0} \\
 0 \ 5 \\
 \underline{0} \\
 5
 \end{array}$$

The quotient is 300 r 5

Question 5

$$\begin{array}{r} 0 \ 2 \ 0 \ 5 \\ 1 \ 0 \overline{) 2 \ 0 \ 5 \ 0} \\ \underline{0} \\ 2 \ 0 \\ \underline{2 \ 0} \\ 0 \ 5 \\ \underline{0} \\ 5 \ 0 \\ \underline{5 \ 0} \\ 0 \end{array}$$

If we take away the 10 extra people from 2060 for the 10th auditorium, we divide by 2050. Each auditorium can seat 205 and the 10th one seats 215.

Question 6

$$\begin{array}{r} 0 \ 0 \ 6 \\ 2 \ 0 \overline{) 1 \ 2 \ 5} \\ \underline{0} \\ 1 \ 2 \\ \underline{0} \\ 1 \ 2 \ 5 \\ \underline{1 \ 2 \ 0} \\ 5 \end{array}$$

Each vehicle will transport 6 learners and because there is a remainder of 5, they will need another vehicle to transport those learners.