

SESSION : 11

CLASS : 3

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 6

CHAPTER NAME : DIVISION

SUBTOPIC : DIVISION BY A 2-DIGIT NUMBER

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

Children will :

- *Determine that division is dividing objects into equal groups.**
- *Define these terms: dividend, divisor, and quotient.**
- *Recognize that division is the opposite of multiplication.**
- *Explain division.**
- *Perform division.**
- *Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.**

DIVISION

DIVISION BY A 2-DIGIT NUMBER

EXAMPLE :

DIVIDE

MULTIPLY

SUBTRACT

BRING DOWN

$$\begin{array}{r} 5 \\ 17 \overline{) 8687} \end{array}$$

$$86 \div 17$$

$$\begin{array}{r} 5 \\ 17 \overline{) 8687} \\ \underline{85} \end{array}$$

$$17 \times 5$$

$$\begin{array}{r} 5 \\ 17 \overline{) 8687} \\ \underline{- 85} \\ 1 \end{array}$$

$$86 - 85$$

$$\begin{array}{r} 5 \\ 17 \overline{) 8687} \\ \underline{- 85} \quad \downarrow \\ 18 \end{array}$$

$$8 \downarrow$$

M
A
T
H
S



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DIVISION

DIVISION BY A 2-DIGIT NUMBER

M
A
T
H
S

DIVIDE

MULTIPLY

SUBTRACT

BRING DOWN

$$\begin{array}{r} 51 \\ 17 \overline{) 8687} \\ \underline{- 85} \\ 18 \end{array}$$

$$18 \div 17$$

$$\begin{array}{r} 51 \\ 17 \overline{) 8687} \\ \underline{- 85} \\ 18 \\ \underline{17} \end{array}$$

$$17 \times 1$$

$$\begin{array}{r} 51 \\ 17 \overline{) 8687} \\ \underline{- 85} \\ 18 \\ \underline{- 17} \\ 1 \end{array}$$

$$18 - 17$$

$$\begin{array}{r} 51 \\ 17 \overline{) 8687} \\ \underline{- 85} \downarrow \\ 18 \\ \underline{- 17} \downarrow \\ 17 \end{array}$$

7 ↓



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DIVISION

DIVISION BY A 2-DIGIT NUMBER

M
A
T
H
S

DIVIDE

MULTIPLY

SUBTRACT

BRING DOWN

$$\begin{array}{r} 511 \\ 17 \overline{) 8687} \\ \underline{- 85} \\ 18 \\ \underline{- 17} \\ 17 \\ \underline{- 17} \\ 0 \end{array}$$

$$17 \div 17$$

$$\begin{array}{r} 511 \\ 17 \overline{) 8687} \\ \underline{- 85} \\ 18 \\ \underline{- 17} \\ 17 \\ \underline{- 17} \\ 0 \end{array}$$

$$17 \times 1$$

$$\begin{array}{r} 511 \\ 17 \overline{) 8687} \\ \underline{- 85} \\ 18 \\ \underline{- 17} \\ 17 \\ \underline{- 17} \\ 0 \end{array}$$

$$17 - 17$$

As there is no more digits so there is nothing to bring down



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DIVISION

DIVISION BY A 2-DIGIT NUMBER

EXAMPLE : $9381 \div 29$

$$\begin{array}{r} 323 \rightarrow Q \\ 29 \overline{) 9381} \\ \underline{- 87} \\ 68 \\ \underline{- 58} \\ 101 \\ \underline{- 87} \\ 14 \rightarrow R \end{array}$$

$$\begin{array}{r} 29 \\ \times 2 \\ \hline 58 \end{array}$$

$$\begin{array}{r} 29 \\ \times 3 \\ \hline 87 \end{array}$$

DIVISION

DIVISION BY A 2-DIGIT NUMBER

**Extra questions
in notebook.**



DIVISION

DIVISION BY A 2-DIGIT NUMBER

Now let us solve:

1) $8534 \div 20$

2) $6498 \div 18$

3) $9457 \div 23$

4) $7462 \div 16$

DIVISION

DIVISION BY A 2-DIGIT NUMBER

$$1) 8534 \div 20$$

$$\begin{array}{r} \overline{) 8534} \rightarrow Q \\ \underline{80} \\ \overline{) 53} \\ \underline{40} \\ \overline{) 134} \\ \underline{120} \\ \overline{) 14} \rightarrow R \end{array}$$

$$\begin{array}{r} 20 \\ \times 2 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 20 \\ \times 4 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 20 \\ \times 6 \\ \hline 120 \end{array}$$

DIVISION

DIVISION BY A 2-DIGIT NUMBER

$$2) 6498 \div 18$$

$$\begin{array}{r} 361 \rightarrow Q \\ 18 \overline{) 6498} \\ \underline{-54} \\ 109 \\ \underline{-108} \\ 18 \\ \underline{-18} \\ 0 \rightarrow R \end{array}$$

$$\begin{array}{r} 18 \\ \times 6 \\ \hline 108 \end{array}$$

$$\begin{array}{r} 18 \\ \times 3 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 18 \\ \times 1 \\ \hline 18 \end{array}$$

DIVISION

DIVISION BY A 2-DIGIT NUMBER

$$3) 9457 \div 23$$

$$\begin{array}{r} 411 \longrightarrow Q \\ 23 \overline{) 9457} \\ \underline{- 92} \\ 25 \\ \underline{- 23} \\ 27 \\ \underline{- 23} \\ 4 \longrightarrow R \end{array}$$

$$\begin{array}{r} 23 \\ \times 1 \\ \hline 23 \end{array}$$

$$\begin{array}{r} 23 \\ \times 4 \\ \hline 92 \end{array}$$

DIVISION

DIVISION BY A 2-DIGIT NUMBER

$$4) 7462 \div 16$$

$$\begin{array}{r} 466 \longrightarrow Q \\ 16 \overline{) 7462} \\ \underline{- 64} \\ 106 \\ \underline{- 96} \\ 102 \\ \underline{- 96} \\ 6 \longrightarrow R \end{array}$$

$$\begin{array}{r} 16 \\ \times 6 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 16 \\ \times 4 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 16 \\ \times 6 \\ \hline 96 \end{array}$$

LEARNING OUTCOME:

Children are confident to determine that division is dividing objects into equal groups. Define these terms: dividend, divisor, and quotient. Recognize that division is the opposite of multiplication. Explain division. Perform division and divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.



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GROUP**