

CHAPTER 12: CAN WE SHARE?

- **LONG DIVISION METHOD**
- **CHECKING FOR DIVISION**
- **Date: 8.6.21**

CH 12: CAN WE SHARE? (WS 41)

- 1) WHEN A NUMBER IS DIVIDED BY THE SAME NUMBER ANSWER WILL BE (ONE/ZERO)
- 2) WHEN A NUMBER IS DIVIDED BY ZERO THE ANSWER IS (UNDEFINED/ ZERO)
- 3) DIVIDEND \div DIVISOR = QUOTIENT (REMAINDER / DIVISOR)
- 4) DIVISION IS REPEATED SUBTRACTION (ADDITION/SUBTRACTION)
- 5) $890 \div 1 = 890$
- 6) $0 \div 431 = 0$
- 7) WRITE WHICH ONE IS DIVIDEND, DIVISOR AND QUOTIENT: $72 \div 8 = 9$
 $72 = \text{DIVIDEND}; 8 = \text{DIVISOR}; 9 = \text{QUOTIENT}$

SOLVE BY REPEATED SUBTRACTION METHOD

- 8) $63 \div 9 = ?$ 9) $35 \div 7 = ?$ 10) $64 \div 8 = ?$

$$63 - 9 = 54 \dots S1$$

$$54 - 9 = 45 \dots S2$$

$$45 - 9 = 36 \dots S3$$

$$36 - 9 = 27 \dots S4$$

$$27 - 9 = 18 \dots S5$$

$$18 - 9 = 9 \dots S6$$

$$9 - 9 = 0 \dots S7$$

$$\text{ANS: } 63 \div 9 = 7$$

$$35 - 7 = 28 \dots S1$$

$$28 - 7 = 21 \dots S2$$

$$21 - 7 = 14 \dots S3$$

$$14 - 7 = 7 \dots S4$$

$$7 - 7 = 0 \dots S5$$

$$\text{ANS: } 35 \div 7 = 5$$

$$64 - 8 = 56 \dots S1$$

$$56 - 8 = 48 \dots S2$$

$$48 - 8 = 40 \dots S3$$

$$40 - 8 = 32 \dots S4$$

$$32 - 8 = 24 \dots S5$$

$$24 - 8 = 16 \dots S6$$

$$16 - 8 = 8 \dots S7$$

$$8 - 8 = 0 \dots S8$$

$$\text{ANS: } 64 \div 8 = 8$$

RELATION BETWEEN DIVIDEND, DIVISOR, QUOTIENT AND REMAINDER

$$\text{DIVIDEND} = \text{DIVISOR} \times \text{QUOTIENT} + \text{REMAINDER}$$

divisor → $2 \overline{)11}$ ← dividend

5 ← quotient

10

1 ← remainder

THEREFORE,

$$\begin{aligned} \text{DIVIDEND} &= 2 \times 5 + 1 \\ &= 10 + 1 \\ &= 11 \end{aligned}$$

DIVIDE AND CHECK YOUR ANSWER (3)

$1589 \div 10$

$$\begin{array}{r} 0158 \\ 10 \overline{) 1589} \\ \underline{-10} \downarrow \\ \times 58 \\ \underline{-50} \downarrow \\ \times 89 \\ \underline{-80} \\ \times 9 \\ \underline{} \end{array}$$

Dividend = 1589
Divisor = 10
Quotient = 0158 or 158
Remainder = 9

Dividend = Divisor \times Quotient + Remainder
 $= 10 \times 158 + 9$
 $= 1580 + 9$
 $= 1589$

DIVIDE AND CHECK YOUR ANSWER (4)

$$286 \div 2$$

$$\begin{array}{r} \overset{-}{2} \overline{) 286} \\ \underline{-2} \\ 8 \\ \underline{-8} \\ 6 \\ \underline{-6} \\ 0 \end{array}$$

$$\begin{aligned} \text{Dividend} &= 286 \\ \text{Divisor} &= 2 \\ \text{Quotient} &= 143 \\ \text{Remainder} &= 0 \end{aligned}$$

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$= \cancel{286} \quad 2 \times 143 + 0$$

$$= 286 + 0$$

$$= 286$$

WS 42

1) WRITE THE RELATION BETWEEN DIVIDEND
,DIVISOR,QUOTIENT AND REMAINDER

DIVIDE AND WRITE THE DIVIDEND,DIVISOR,QUOTIENT
AND REMAINDER(IF ANY)

2) $126 \div 10$

3) $875 \div 5$

DIVIDE AND CHECK YOUR ANSWER

4) $982 \div 3$

5) $104 \div 4$

WS 42(CHECK YOUR ANSWERS)

1) **DIVIDEND = DIVISOR X QUOTIENT + REMAINDER**

2) $126 \div 10$

$$\begin{array}{r} 12 \\ 10 \overline{) 126} \\ \underline{-10} \\ 26 \\ \underline{-20} \\ 6 \end{array}$$

Dividend = 126

Divisor = 10

Quotient = 12

Remainder = 6

3) $875 \div 5$

$$\begin{array}{r} 175 \\ 5 \overline{) 875} \\ \underline{-5} \\ 37 \\ \underline{-35} \\ 25 \\ \underline{-25} \\ 0 \end{array}$$

Dividend = 875

Divisor = 5

Quotient = 175

Remainder = 0

WS 42(CHECK YOUR ANSWERS)

4)

$$982 \div 3$$

3 2 7	
3) 982 (
- 9 ↓	
x 8 ↓	
- 6 ↓	
2 2	
- 2 1	
x 1	

Dividend = 982
Divisor = 3
Quotient = 327
Remainder = 1

We know

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 3 \times 327 + 1 \\ &= 981 + 1 \\ &= 982 \end{aligned}$$

5)

$$104 \div 4$$

0 2 6	
4) 104 (
- 0 ↓	
1 0 ↓	
- 8 ↓	
x 2 4	
- 2 4	
x x	

Dividend = 104
Divisor = 4
Quotient = 026 or 26
Remainder = 0

$$\begin{aligned} \text{Dividend} &= \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ &= 4 \times 26 + 0 \\ &= 104 + 0 \\ &= 104 \end{aligned}$$

THANK YOU