

Starter: Answer these times table questions

$$3 \times 4 =$$

$$5 \times 8 =$$

$$8 \times 12 =$$

$$4 \times 11 =$$

0 4 . 0 5 . 2 1

LO: To use inverse operations

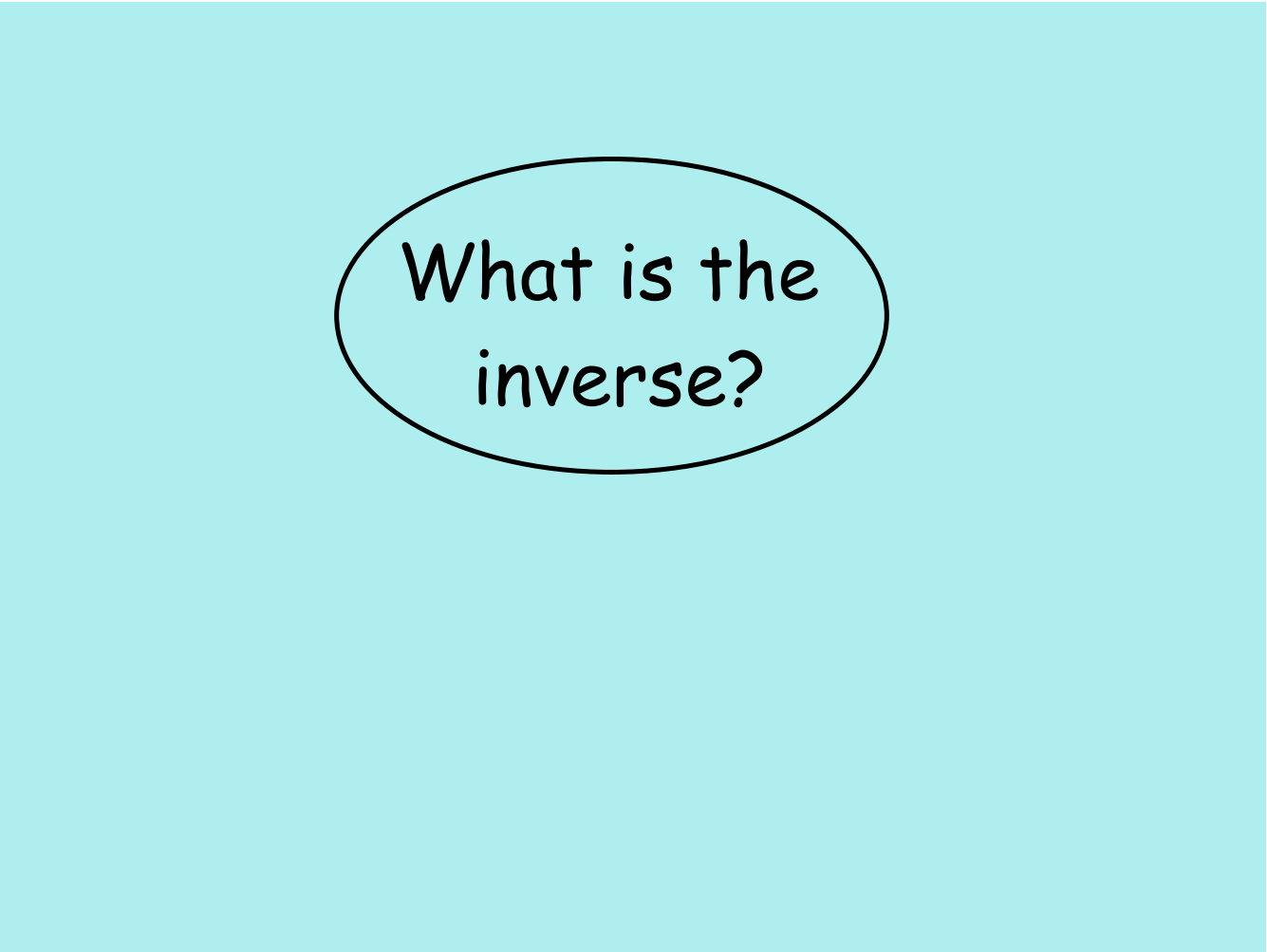
$$90 - 30 = 60$$

$$60 + 30 = 90$$

$$60 - \underline{\quad} = 30$$

$$60 - 30 =$$

Today, we are going to
be looking at the
inverse.



What is the
inverse?

RECAP: How would I solve this multiplication problem?

$$63 \times 3 =$$

$$63 \times 3 = 189$$

63
↙ ↘
60 3

X	60	3
3	180	9
= 189		

RECAP: How would I solve this division problem?

$$63 \div 3 =$$

6 3 ÷ 3 = 21

1 1 0
1 1 0
1 1 0
1

T		O	
1	1	÷	0
		0	-
1	1		0
			0
1	1		0

I DO:

Complete this calculation then check your answer using the inverse.

$$\textcircled{24} \times 5 = 120$$

$$20 \quad 4$$

$$120 \div 5$$

$$\begin{array}{r|l} \times & 20 \quad 4 \\ \hline 5 & 100 + 20 = 120 \end{array}$$

$$12 \quad 0$$

$$\begin{array}{l} \cancel{1} \cancel{1} \cancel{1} \\ \cancel{1} \cancel{1} \cancel{1} \\ \cancel{1} \cancel{1} \cancel{1} \end{array}$$

T		O			
1	1	0	0	0	0
1	1	0	0	0	0
1	1	0	0	0	0
1	1	0	0	0	0
1	1	0	0	0	0

I DO:

Complete this calculation then check your
answer using the inverse.

$$24 \times 5 =$$

WE DO:

Complete this calculation then check your answer using the inverse.

$$35 \times 3 = 105$$

x	30	5
3	90	+15

$$3 \times 30 = 90$$

$$3 \times 3 = 9$$

$$3 \times 5 = 15$$

$$90 + 15 = 105$$

Inverse: $105 \div 3 = 35$

$$105$$

XXXXX 00000
XXXXX 00000
XXXXX 00000

111	000
111	000
111	000

YOU DO:

Complete the following questions then check your answer using the inverse:

1. $45 \times 3 =$

2. $27 \times 4 =$

3. $16 \times 5 =$

4. $45 \div 5 =$

5. $69 \div 3 =$

6. $72 \div 8 =$

Challenge:

Challenge:

Mo says 45 divided by 5 is 8. Is he correct?

Use the inverse to calculate your answer.

Challenge:

Gemma thinks 9×7 is 64. Is she correct?

Use the inverse operation to show your answer.